

ARIZONA STATE  
UNIVERSITY  
GENERAL CATALOG  
2005-2006

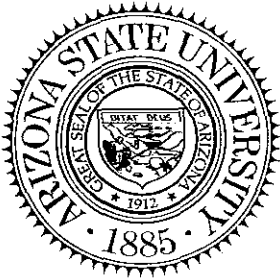
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# **Arizona State University**

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**2005–2006 General Catalog**

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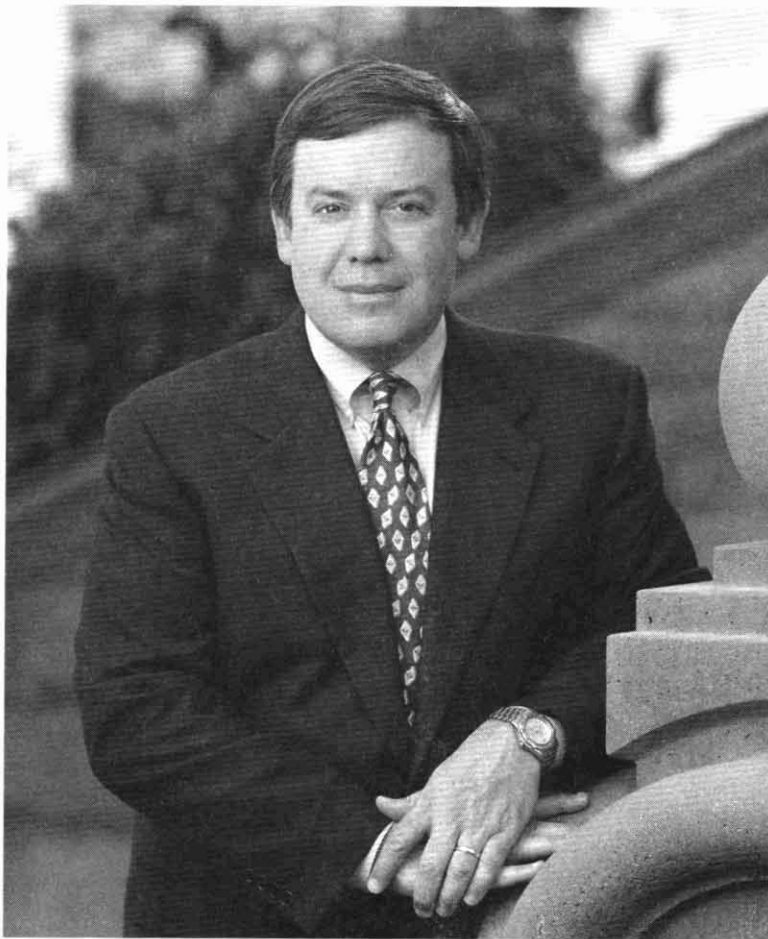
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President Michael M. Crow

Dave Tevis photo

Dear ASU Students and Prospective Students:

Welcome to Arizona State University! I am pleased to introduce the 2005–2006 *General Catalog*. As evidenced in these pages, ASU offers a wide range of academic study, research opportunities, and resources, as well as a talented and enthusiastic faculty to provide you with a quality educational experience that is both challenging and rewarding.

The catalog is organized so that you can effectively find the information most applicable to your course of study. All of the information herein is intended to help guide you through your university experience. However, nothing can replace the guidance of a skilled academic advisor. I strongly encourage you to work closely with an advisor to plan your academic program and in turn, maximize your time at ASU.

I am tremendously excited to welcome you to ASU, and I wish you all the best for a productive and fulfilling collegiate experience.

Sincerely,

A handwritten signature in black ink that reads "Michael Crow". The signature is written in a cursive, flowing style.

Michael M. Crow  
President

# Contents

To search by

<b>Course .....</b>	<b>7</b>
<b>Degree.....</b>	<b>12</b>

<b>President's Message.....</b>	<b>3</b>
<b>Course Prefix Index.....</b>	<b>7</b>
<b>Academic Organization .....</b>	<b>10</b>
<b>ASU Baccalaureate Degrees .....</b>	<b>12</b>
<b>University Calendar .....</b>	<b>17</b>
<b>Frequently Asked Questions .....</b>	<b>20</b>
<b>Academic Definitions.....</b>	<b>21</b>
<b>General Information .....</b>	<b>23</b>
Mission, Organization .....	23
Equal Opportunity and Affirmative Action .....	23
Intergroup Relations Center.....	24
History of Arizona State University .....	24
University Campuses and Sites .....	26
ASU Campus Locations Map.....	27
University Library and Collections .....	28
Performing and Fine Arts Facilities.....	28
Computing Facilities and Services .....	30
Alumni Association.....	32
Program Assessment and the Office of University Evaluation.....	32
Learning and Teaching Excellence.....	32
<b>Research Centers.....</b>	<b>33</b>
College of Architecture and Environmental Design.....	33
W. P. Carey School of Business.....	34
East Campus .....	35
College of Education .....	36
Ira A. Fulton School of Engineering .....	37
The Katherine K. Herberger College of Fine Arts .....	37
College of Law .....	37
College of Liberal Arts and Sciences .....	37
College of Public Programs.....	42
Vice President for Research and Economic Affairs .....	43
<b>Student Services .....</b>	<b>45</b>
Residential Life .....	45
Student Development.....	45
Memorial Union .....	48
Student Life .....	48
Student Advocacy and Assistance .....	49
Counseling and Consultation.....	49

Student Health and Wellness Center.....	50
Student Media.....	51
Career Services .....	51
Student Recreation Complex and Recreational Sports.....	51
Arizona Prevention Resource Center.....	51
Intercollegiate Athletics.....	52
Religious Activities.....	52
Other Opportunities for Student Involvement .....	52

<b>Fees, Deposits, and Other Charges .....</b>	<b>53</b>
<b>Financial Aid .....</b>	<b>59</b>
<b>Classification of Courses.....</b>	<b>62</b>
<b>Undergraduate Enrollment.....</b>	<b>65</b>
Enrollment Services at ASU.....	65
Office of Undergraduate Admissions .....	65
Student Financial Assistance .....	65
University Registrar's Office .....	65
Undergraduate Admission .....	66
Credit by Examination.....	73
Placement Examinations.....	77
Academic Advising .....	77
Readmission to the University .....	78
Academic Renewal .....	79
Registration.....	79
Cooperative Programs.....	80
Grading System .....	81
Retention and Academic Standards .....	84
Student Records.....	86
<b>University Graduation Requirements .....</b>	<b>88</b>
<b>General Studies .....</b>	<b>92</b>
General Studies Courses Table .....	94
<b>Minors, Certificates, and Interdisciplinary     Studies .....</b>	<b>117</b>
<b>University College .....</b>	<b>123</b>
Academic Advising Services.....	123
Academic Community Engagement Services .....	123
Academic Success Programs .....	124
School of Interdisciplinary Studies.....	124
<b>The Barrett Honors College .....</b>	<b>129</b>
<b>Architecture and Environmental Design,     College of.....</b>	<b>134</b>
Architecture and Landscape Architecture, School of.....	139
Design, School of.....	147
Planning, School of.....	158

**Business, W. P. Carey School of.....166**

Accountancy, School of .....	175
Business Administration .....	176
Economics, Department of .....	177
Finance, Department of .....	180
Health Management and Policy, School of .....	181
Information Systems, Department of .....	181
International Business Studies .....	183
Management, Department of .....	185
Marketing, Department of .....	188
Supply Chain Management, Department of .....	189

**Education, College of .....192**

Curriculum and Instruction, Division of .....	206
Educational Leadership and Policy Studies, Division of .....	211
Psychology in Education, Division of .....	212

**Engineering, Ira A. Fulton School of .....214**

Construction, Del E. Webb School of .....	221
Engineering Programs .....	225
Bioengineering, Harrington Department of .....	230
Chemical and Materials Engineering, Department of .....	235
Civil and Environmental Engineering, Department of .....	243
Computer Science and Engineering, Department of ...	249
Electrical Engineering, Department of .....	255
Industrial Engineering, Department of .....	259
Mechanical and Aerospace Engineering, Department of .....	263
Engineering Special Studies, Programs in .....	271

**Fine Arts, the Katherine K. Herberger**

**College of .....274**

Art, School of .....	279
Dance, Department of .....	294
Music, School of .....	299
Theatre, Department of .....	312

**Journalism and Mass Communication,**

**Walter Cronkite School of.....318**

**Law, College of .....323**

**Liberal Arts and Sciences, College of.....326**

Aerospace Studies, Department of .....	343
African and African American Studies Program .....	345
American Indian Studies Program .....	348
Anthropology, Department of .....	349
Asian Pacific American Studies Program .....	354
Chemistry and Biochemistry, Department of .....	356
Chicana and Chicano Studies, Department of .....	363
Computational Biosciences .....	365
Economics .....	365
English, Department of .....	367
Family and Human Development, Department of .....	374
Film and Media Studies .....	376
Geography, Department of .....	377

Geological Sciences, Department of .....	383
Global Studies, School of .....	386
History, Department of .....	386
Human Communication, Hugh Downs School of .....	393
Justice and Social Inquiry, School of .....	397
Kinesiology, Department of .....	401
Languages and Literatures, Department of .....	404
Life Sciences, School of .....	422
Mathematics and Statistics, Department of .....	436
Military Science, Department of .....	444
Philosophy, Department of .....	446
Physics and Astronomy, Department of .....	448
Political Science, Department of .....	453
Psychology, Department of .....	458
Religious Studies, Department of .....	462
Sociology, Department of .....	466
Speech and Hearing Science, Department of .....	469
Women and Gender Studies Program .....	471

**Nursing, College of.....474**

**Public Programs, College of .....484**

Community Resources and Development, School of .....	488
Public Affairs, School of .....	491
Social Work, School of .....	492

**Graduate Studies, Division of.....498**

**Graduate Interdisciplinary Programs .....509**

**ASU Graduate Degrees .....510**

**International Programs .....516**

**Summer Sessions.....518**

**Regents' Professors.....519**

**Administrative Personnel.....521**

---

**Downtown Phoenix Campus .....525**

---

**East Campus.....526**

**Agribusiness and Resource Management,  
Morrison School of.....531**

**East College .....539**

Applied Biological Sciences, Department of .....	541
Applied Psychology, Faculty of .....	547
Business Administration, Faculty of .....	548
Education, Faculty of .....	550
Exercise and Wellness, Department of .....	555
Human Health Studies, Faculty of .....	559
Multimedia Writing and Technical Communication, Faculty of .....	560
Nutrition, Department of .....	562



## CONTENTS

<b>Technology and Applied Sciences,</b>	
<b>College of .....</b>	<b>567</b>
Aeronautical Management Technology,	
Department of .....	571
Electronics and Computer Engineering Technology,	
Department of .....	576
Engineering, Department of .....	580
Information and Management Technology,	
Department of .....	581
Mechanical and Manufacturing Engineering	
Technology, Department of .....	587
Division of Computing Studies .....	592
<b>Map, East Campus .....</b>	<b>597</b>
<b>Directory, East Campus .....</b>	<b>598</b>
<b>Faculty and Academic Professionals,</b>	
<b>East Campus .....</b>	<b>599</b>
<b>Administrative Personnel, East Campus ...</b>	<b>604</b>
<hr/>	
<b>Tempe Campus.....</b>	<b>605</b>
<b>Directory, Tempe Campus .....</b>	<b>606</b>
<b>Faculty and Academic Professionals,</b>	
<b>Tempe Campus .....</b>	<b>612</b>
<b>Administrative Personnel,</b>	
<b>Tempe Campus .....</b>	<b>680</b>
<hr/>	
<b>West Campus.....</b>	<b>685</b>
Gerontology (University-wide) Program.....	690
<b>Map, West Campus .....</b>	<b>692</b>
<b>Directory, West Campus .....</b>	<b>693</b>
<b>Faculty and Academic Professionals,</b>	
<b>West Campus .....</b>	<b>695</b>
<b>Administrative Personnel,</b>	
<b>West Campus .....</b>	<b>702</b>

<b>College of Extended Education.....</b>	<b>703</b>
Schedule Options .....	703
Distance Learning.....	704
Off-Campus Locations.....	704
Degree Programs .....	704
Undergraduate Degrees.....	705
Graduate Degrees.....	705
Certificates.....	705
Undergraduate Certificates .....	705
Graduate Certificates .....	705
Professional Development Certificates.....	706
Continuing Education .....	707
Lectures.....	708
Downtown Partnerships .....	708
Locations.....	708
Map, Downtown Center at ASU .....	709
<b>Faculty and Academic Professionals,</b>	
<b>Extended Education .....</b>	<b>710</b>
<b>Administrative Personnel, Extended</b>	
<b>Education .....</b>	<b>711</b>
<b>Directory, Extended Education.....</b>	<b>711</b>
<hr/>	
<b>Accreditation and Affiliation.....</b>	<b>712</b>
<b>Index.....</b>	<b>718</b>
<b>Building Abbreviations.....</b>	<b>757</b>
<b>Tempe Campus Map .....</b>	<b>inside back cover</b>

# Course Prefix Index

The course descriptions in this catalog refer to Tempe campus and East campus courses. For West campus course descriptions, see the *West Campus Catalog*. For graduate course descriptions, see the *Graduate Catalog*.

AAD Architectural Administration and Management....	144	BUS Business.....	190
ABS Applied Biological Sciences .....	545	CBS Computational Biosciences.....	<i>Graduate Catalog</i>
ACC Accountancy.....	176	CCS Chicana and Chicano Studies.....	364
ACO Applied Computing.....	<i>West Campus Catalog</i>	CDE Child Development.....	375
ADE Architectural Design and Technology Studios.....	144	CED Counselor Education .....	212
AES Aerospace Studies .....	344	CEE Civil and Environmental Engineering .....	248
AET Aeronautical Engineering Technology .....	590	CET Computer Engineering Technology.....	595
AFH African and African American Studies Humanities.....	346	CFA College of Fine Arts .....	278
AFR African and African American Studies .....	347	CHE Chemical Engineering .....	241
AFS African and African American Studies Social Science.....	347	CHI Chinese .....	411
AGB Agribusiness .....	535	CHM Chemistry .....	361
AIS American Indian Studies .....	349	CHP Community Health Practice .....	<i>Graduate Catalog</i>
AME Arts, Media, and Engineering .....	<i>Graduate Catalog</i>	CIS Computer Information Systems.....	182
AMS American Studies .....	<i>West Campus Catalog</i>	CLS Clinical Laboratory Sciences/Medical Technology .....	431
AMT Aeronautical Management Technology .....	574	COB School of Business .....	174
ANP Environmental Analysis and Programming .....	144	COE College of Education .....	<i>Graduate Catalog</i>
APA Asian Pacific American Studies .....	355	COM Communication Studies .....	<i>West Campus Catalog</i>
APH Architectural Philosophy and History .....	145	COM Hugh Downs School of Human Communication .....	394
APM Applied Mathematics .....	539	CON Construction .....	224
ARA Art Auxiliary .....	286	CPP College of Public Programs.....	488
ARB Arabic.....	411	CPY Counseling Psychology .....	<i>Graduate Catalog</i>
ARE Art Education .....	286	CRJ Criminal Justice.....	<i>West Campus Catalog</i>
ARP Architecture Professional Studies .....	145	CSE Computer Science and Engineering .....	253
ARS Art History .....	286	CSH Chicana and Chicano Studies Humanities.....	364
ART Art .....	289	CSS Chicana and Chicano Studies Social Science.....	365
ASB Anthropology (Social and Behavioral) .....	351	CST Computing Studies .....	596
ASC Applied Science Core.....	539	DAH Dance History.....	296
ASE Analysis and Systems.....	228	DAN Dance.....	296
ASM Anthropology (Science and Mathematics).....	353	DCI Curriculum and Instruction .....	207
AST Astronomy.....	450	DSC Design.....	154
ATE Architectural Technology .....	146	EAC Early Childhood Education .....	553
AVC Architectural Communication.....	146	ECD Early Childhood Education .....	207
BCH Biochemistry .....	361	ECE Engineering Core.....	229
BCS Serbo-Croatian .....	411	ECN Economics .....	178
BIO Biology .....	428	EDA Educational Administration and Supervision.....	<i>Graduate Catalog</i>
BIS Bachelor of Interdisciplinary Studies .....	125	EDB Elementary Education Program.....	64
BLE Bilingual Education.....	206	EDC Elementary Education .....	553
BME Bioengineering .....	234	EDP Educational Psychology .....	213
BUA Business Administration .....	549	EDT Educational Technology .....	213
BUE Business Education .....	207	EED Elementary Education .....	208
		EEE Electrical Engineering .....	258

## COURSE PREFIX INDEX

EET	Electronics Engineering Technology	578	IEE	Industrial Engineering	262
ELL	English as a Second Language	554	IMC	Information and Management Core	586
ENG	English	369	IMD	Instructional Media	554
EPA	Education Policy Analysis	<i>Graduate Catalog</i>	IND	Industrial Design	156
EPD	Environmental Design and Planning	<i>Graduate Catalog</i>	INT	Interior Design	157
ETC	Engineering Technology Core	570	IPO	International Programs Overseas	64
ETH	Ethnic Studies	<i>West Campus Catalog</i>	ISM	Information Systems Management	<i>West Campus Catalog</i>
ETM	Environmental Technology Management	584	ITA	Italian	415
EXW	Exercise and Wellness	557	ITM	Industrial Technology Management	587
FAS	Family Studies	375	JAC	Joint Admission Continuous Enrollment	64
FIN	Finance	180	JMC	Journalism and Mass Communication	320
FLA	Foreign Languages	410	JPN	Japanese	416
FMS	Film and Media Studies	376	JUS	Justice Studies	399
FRD	Family and Human Development	376	KIN	Kinesiology	402
FRE	French	412	KOR	Korean	416
FSA	Fire Service Administration	<i>Graduate Catalog</i>	LAT	Latin	417
FSM	Fire Service Management	584	LAW	Law	<i>Graduate Catalog</i>
GCU	Cultural Geography	380	LES	Legal and Ethical Studies	190
GER	German	413	LIA	Liberal Arts and Sciences	343
GIT	Graphic Information Technology	585	LIN	Linguistics	<i>Graduate Catalog</i>
GLB	Global Business	<i>West Campus Catalog</i>	LIS	Library Science	<i>Graduate Catalog</i>
GLG	Geological Sciences	384	LSC	Life Sciences	<i>West Campus Catalog</i>
GPH	Physical Geography	381	LTE	Learning and Teaching Excellence	<i>Graduate Catalog</i>
GRA	Graphic Design	155	MAE	Mechanical and Aerospace Engineering	269
GRD	Division of Graduate Studies	64	MAK	Macedonian	417
GRK	Ancient Greek	414	MAS	Master of Arts in Interdisciplinary Studies	<i>West Campus Catalog</i>
GRN	Gerontology	691	MAT	Mathematics	440
GTD	Global Technology and Development	<i>Graduate Catalog</i>	MBB	Molecular Biosciences/Biotechnology	432
HCR	Health Care Related	481	MCB	Molecular and Cellular Biology	<i>Graduate Catalog</i>
HEB	Hebrew	414	MCE	Multicultural Education	209
HED	Higher and Postsecondary Education	<i>Graduate Catalog</i>	MCO	Mass Communication	322
HES	Health Science	402	MET	Mechanical and Manufacturing Engineering Technology	591
HHS	Human Health Studies	559	MGT	Management	187
HIS	History	<i>West Campus Catalog</i>	MHL	Music History/Literature	307
HON	Honors	132	MIC	Microbiology	433
HPS	History and Philosophy of Science	432	MIS	Military Science	445
HRM	Human Resources Management	<i>West Campus Catalog</i>	MKT	Marketing	188
HSM	Health Sector Management	181	MLS	Master of Liberal Studies	<i>Graduate Catalog</i>
HST	History	388	MSE	Materials Science and Engineering	242
HUD	Housing and Urban Development	162	MTC	Music Theory and Composition	308
HUM	Humanities	343	MTE	Mathematics Education	442
IAP	Interdisciplinary Arts and Performance	<i>West Campus Catalog</i>	MUE	Music Education	308
IAS	Integrative Studies	<i>West Campus Catalog</i>	MUP	Music Performance	310
IBS	International Business Studies	184	MUS	Music	312
IDN	Indonesian	415	NLM	Nonprofit Leadership and Management	<i>Graduate Catalog</i>
IED	Indian Education	208	NOR	Norwegian	417
			NTR	Nutrition	565

## COURSE PREFIX INDEX

NUR	Nursing.....	482	SED	Secondary Education.....	210
OPM	Operations and Production Management.....	<i>West Campus Catalog</i>	SEM	Science and Engineering of Materials.....	<i>Graduate Catalog</i>
PAF	Public Affairs .....	492	SET	Security Engineering Technology ..	<i>Graduate Catalog</i>
PGM	Professional Golf Management.....	537	SGS	School of Global Studies.....	386
PGS	Psychology (Social and Behavioral) .....	459	SHS	Speech and Hearing Science .....	469
PHI	Philosophy.....	447	SLV	Slavic .....	419
PHS	Physical Sciences .....	451	SOC	Sociology.....	466
PHY	Physics.....	451	SPA	Spanish .....	419
PLA	Landscape Architecture.....	146	SPC	Special Education .....	555
PLB	Plant Biology.....	434	SPE	Special Education .....	210
POL	Political Science.....	<i>West Campus Catalog</i>	SPF	Social and Philosophical Foundations.....	212
POR	Portuguese .....	417	STE	Society, Values, and Technology .....	229
POS	Political Science .....	455	STP	Statistics and Probability .....	443
PPE	Physical Education .....	555	SWE	Swedish .....	421
PSY	Psychology (Science and Mathematics).....	461, 548	SWG	Social Work (Graduate Program) ..	<i>Graduate Catalog</i>
PUB	Scholarly Publishing .....	<i>Graduate Catalog</i>	SWU	Social Work (Undergraduate Program) .....	497
PUP	Urban and Environmental Planning .....	163	THA	Thai.....	421
QBA	Quantitative Business Analysis.....	179	THE	Theatre.....	314
RDG	Reading Education .....	209	THP	Theatre Performance and Production .....	315
REA	Real Estate.....	550	TRC	Transportation Systems Certificate .....	<i>Graduate Catalog</i>
REC	Recreation Management and Tourism.....	490	TWC	Multimedia Writing and Technical Communication .....	561
REL	Religious Studies.....	463	UET	Microelectronics Engineering Technology .....	579
ROM	Romanian .....	418	UNI	Academic Success at the University.....	124
RUS	Russian .....	418	VTN	Vietnamese .....	421
SBS	Social and Behavioral Sciences.....	<i>West Campus Catalog</i>	WAC	Writing Across the Curriculum .....	374
SCA	Scandinavian .....	419	WSH	Women's Studies Humanities.....	472
SCM	Supply Chain Management.....	190	WST	Women's Studies .....	473
SDE	Secondary Education East.....	555	X-	Cohort Management.....	64

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# Academic Organization

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ASU is in the process of becoming one university organized around colleges and schools rather than campuses. To determine the campus(es) where a college or school is located, refer to its section within this catalog.

## **Academic Affairs (West Campus)**

Barrett Honors College  
Division of Collaborative Programs  
    Campus Advising Center  
    Freshman Experience Office  
    University-College Center

## **Barrett Honors College**

## **College of Architecture and Environmental Design**

School of Architecture and Landscape Architecture  
School of Design  
School of Planning

## **College of Education**

Division of Curriculum and Instruction  
Division of Educational Leadership and Policy Studies  
Division of Psychology in Education

## **College of Extended Education**

Academic and Professional Programs  
American English and Culture Program  
Distance Learning and Technology  
Extended Campus Programs

## **College of Human Services**

Department of Communication Studies  
Department of Criminal Justice and Criminology  
Department of Recreation and Tourism Management  
Department of Social Work  
Gerontology Program (University-wide Program)  
Nursing (Tempe campus program)

## **College of Law**

## **College of Liberal Arts and Sciences**

African and African American Studies Program  
American Indian Studies Program  
Asian Pacific American Studies Program  
Department of Aerospace Studies  
Department of Anthropology  
Department of Chemistry and Biochemistry  
Department of Chicana and Chicano Studies  
Department of English  
Department of Family and Human Development  
Department of Geography

Department of Geological Sciences  
Department of History  
Department of Kinesiology  
Department of Languages and Literatures  
Department of Mathematics and Statistics  
Department of Military Science  
Department of Philosophy  
Department of Physics and Astronomy  
Department of Political Science  
Department of Psychology  
Department of Religious Studies  
Department of Sociology  
Department of Speech and Hearing Science  
Hugh Downs School of Human Communication  
School of Justice and Social Inquiry  
School of Life Sciences  
Women and Gender Studies Program

## **College of Nursing**

## **College of Public Programs**

School of Community Resources and Development  
School of Public Affairs  
School of Social Work

## **College of Teacher Education and Leadership**

Department of Elementary Education  
Department of Graduate Studies and Professional Development  
Department of Secondary Education  
Department of Special Education

## **College of Technology and Applied Sciences**

Department of Aeronautical Management Technology  
Department of Electronics and Computer Engineering Technology  
Department of Engineering  
Department of Information and Management Technology  
Department of Mechanical and Manufacturing Engineering Technology  
Division of Computing Studies

## **Division of Graduate Studies**

Science and Engineering of Materials  
Transportation Systems



**East College**

Department of Applied Biological Sciences  
Department of Exercise and Wellness  
Department of Nutrition  
Faculty of Applied Psychology  
Faculty of Business Administration  
Faculty of Education  
Faculty of Human Health Studies  
Faculty of Multimedia Writing and Technical  
Communication

**Ira A. Fulton School of Engineering**

Del E. Webb School of Construction  
Department of Chemical and Materials Engineering  
Department of Civil and Environmental Engineering  
Department of Computer Science and Engineering  
Department of Electrical Engineering  
Department of Industrial Engineering  
Department of Mechanical and Aerospace Engineering  
Harrington Department of Bioengineering

**Katherine K. Herberger College of Fine Arts**

Department of Dance  
Department of Theatre  
School of Art  
School of Music

**Morrison School of Agribusiness and  
Resource Management**

**New College of Interdisciplinary Arts and  
Sciences**

Department of Integrated Natural Sciences  
Department of Integrative Studies

Department of Interdisciplinary Arts and Performance  
Department of Language, Cultures, and History  
Department of Social and Behavioral Sciences  
Ethnic Studies Program  
Interdisciplinary Studies Graduate Program  
Religious Studies Program  
Women's Studies Program

**School of Global Management  
and Leadership**

Department of Accounting and Information Systems  
Management  
Department of Economics, Finance, Marketing, and  
Quantitative Business Analysis  
Department of Management

**University College**

Academic Success at the University  
School of Interdisciplinary Studies  
Writing Across the Curriculum

**W. P. Carey School of Business**

Department of Economics  
Department of Finance  
Department of Information Systems  
Department of Management  
Department of Marketing  
Department of Supply Chain Management  
School of Accountancy  
School of Health Management and Policy

**Walter Cronkite School of Journalism and  
Mass Communication**

# ASU Baccalaureate Degrees

Baccalaureate degrees, majors, and concentrations offered by ASU colleges and schools are shown in the “ASU Baccalaureate Degrees” table below, organized by the name of the major. The table points to the primary page where more information can be found. The table shows only officially approved concentrations; other informal areas of study may also be available. For graduate degrees, see the “ASU Graduate Degrees” table, page 510.

ASU offers these baccalaureate degrees, abbreviated in the table below and elsewhere in the catalog:

Bachelor of Applied Science (BAS)  
Bachelor of Arts (BA)

Bachelor of Arts in Education (BAE)  
Bachelor of Fine Arts (BFA)  
Bachelor of Interdisciplinary Studies (BIS)  
Bachelor of Music (BM)  
Bachelor of Science (BS)  
Bachelor of Science in Design (BSD)  
Bachelor of Science in Engineering (BSE)  
Bachelor of Science in Landscape Architecture (BSLA)  
Bachelor of Science in Nursing (BSN)  
Bachelor of Science in Planning (BSP)  
Bachelor of Social Work (BSW)

## ASU Baccalaureate Degrees

Major	Degree	Concentration <sup>1</sup>	Campus	Page
Accountancy	BS	—	Tempe	175
		—	West	686
Aeronautical Management Technology <sup>2</sup>	BS	Air transportation management or professional flight	East	571
Aerospace Engineering <sup>2</sup>	BSE	—	Tempe	263
African and African American Studies	BA	Humanities/arts; politics and society; or social and behavioral sciences	Tempe	345
Agribusiness	BS	Agribusiness finance; food, agribusiness, and consumer products marketing; food science; general agribusiness; golf and facilities management; international agribusiness; management of agribusiness; preveterinary medicine; or professional golf management	East	532
American Indian Studies	BS	—	Tempe	348
American Studies	BA	—	West	686
Anthropology	BA	—	Tempe	349
Applied Biological Sciences	BS	Applied biological sciences, applied biological sciences/secondary education, ecological restoration, urban horticulture, or wildlife habitat management	East	541
Applied Computer Science	BS	—	East	593
Applied Computing	BS	Database systems, network and distributed processing, or digital media and graphic design	West	686
Applied Psychology	BS	—	East	547
Applied Science	BAS	Aviation maintenance management technology	East <sup>3</sup>	574
		Aviation management technology	East <sup>3</sup>	574
		Computer systems administration	East <sup>3</sup>	593
		Consumer products technology	East <sup>3</sup>	535
		Digital media management	East <sup>3</sup>	583
		Digital publishing	East <sup>3</sup>	583

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> This major requires more than 120 semester hours to complete.

<sup>3</sup> This program is also offered through the College of Extended Education.

<sup>4</sup> Applications for this program are not being accepted at this time.

<sup>5</sup> This program is administered by Tempe campus.

## ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration <sup>1</sup>	Campus	Page
Applied Science (continued)	BAS	Emergency management	East <sup>3</sup>	583
		Fire service management	East <sup>3</sup>	583
		Food retail management	East <sup>3</sup>	535
		Food service management	East <sup>3</sup>	565
		Instrumentation	East <sup>3</sup>	578
		Manufacturing technology and management	East <sup>3</sup>	590
		Materials joining and manufacturing technology	East <sup>3</sup>	590
		Microcomputer systems	East <sup>3</sup>	593
		Multimedia writing and technical communication	East <sup>3</sup>	561
		Municipal operations management	East <sup>3</sup>	583
		Operations management	East <sup>3</sup>	583
		Semiconductor technology	East <sup>3</sup>	578
		Software technology applications	East <sup>3</sup>	593
		Technical graphics	East <sup>3</sup>	583
		Wellness	East <sup>3</sup>	556
		Any minor available at ASU West or individualized concentration	West <sup>3</sup>	688
Architectural Studies	BSD	—	Tempe	139
Art	BA	Art history, digital art, museum studies, or studio art	Tempe	279
	BFA	Art education, ceramics, drawing, fibers, intermedia, metals, painting, photography, printmaking, or sculpture	Tempe	281
Asian Languages (Chinese/Japanese)	BA	—	Tempe	405
Biochemistry	BA	—	Tempe	358
	BS	Optional: medicinal chemistry <sup>1</sup>	Tempe	359
Bioengineering <sup>2</sup>	BSE	—	Tempe	230
Biology	BS	Optional: biology and society <sup>1</sup>	Tempe	422
Business Administration	BS	—	East	177
			East	548
Chemical Engineering <sup>2</sup>	BSE	—	Tempe	235
Chemistry	BA	—	Tempe	356
	BS	Optional: environmental chemistry <sup>1</sup>	Tempe	357
Chicana and Chicano Studies	BA	Humanities/cultural sciences or social sciences/policy	Tempe	363
Civil Engineering <sup>2</sup>	BSE	Optional: Construction engineering or environmental engineering <sup>1</sup>	Tempe	244
Clinical Laboratory Sciences	BS	—	Tempe	423
Communication	BA, BS	—	Tempe <sup>3</sup>	393
Communication Studies	BA, BS	—	West	686
Computational Mathematical Sciences	BS	—	Tempe	437
Computer Information Systems	BS	—	Tempe	182
Computer Science <sup>2</sup>	BS	Optional: software engineering <sup>1</sup>	Tempe	250
Computer Systems <sup>2</sup>	BS	Computer hardware technology, embedded systems technology, or software technology	East	594
Computer Systems Engineering <sup>2</sup>	BSE	—	Tempe	251
Conservation Biology	BS	—	Tempe	423

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> This major requires more than 120 semester hours to complete.

<sup>3</sup> This program is also offered through the College of Extended Education.

<sup>4</sup> Applications for this program are not being accepted at this time.

<sup>5</sup> This program is administered by Tempe campus.

## ASU BACCALAUREATE DEGREES

### ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration <sup>1</sup>	Campus	Page
Construction <sup>2</sup>	BS	General building construction, heavy construction, residential construction, or specialty construction	Tempe	221
Criminal Justice and Criminology	BS	—	West	686
Dance	BFA	Choreography, dance education, dance studies, or performance	Tempe	294
Design Science <sup>4</sup>	BSD	—	Tempe	148
Early Childhood Education	BAE	—	Tempe	199
Economics	BA	—	Tempe	365
	BS	—	Tempe	177
				366
Electrical Engineering <sup>2</sup>	BSE	—	Tempe	255
Electronics Engineering Technology <sup>2</sup>	BS	Electronic systems, microelectronics, or telecommunications	East	576
Elementary Education	BAE	—	East	550
		Optional: bilingual education/English as a second language or early childhood education <sup>1</sup>	West	686
		Optional: indigenous teacher preparation program or multilingual/multicultural education <sup>1</sup>	Tempe <sup>3</sup>	201
Engineering	BSE	—	East	580
Engineering Interdisciplinary Studies <sup>4</sup>	BS	—	Tempe	218
Engineering Special Studies <sup>2</sup>	BSE	Premedical engineering	Tempe	271
English	BA	Creative writing, linguistics, or literature	Tempe <sup>3</sup>	367
		—	West <sup>3</sup>	686
Exercise and Wellness	BS	Exercise and wellness or health promotion	East	555
Family and Human Development	BS	Optional: family studies/child development <sup>1</sup>	Tempe	374
Finance	BS	—	Tempe	180
French	BA	—	Tempe	405
Geography	BA, BS	Meteorology-climatology or urban studies	Tempe	377
Geological Sciences	BS	—	Tempe	383
German	BA	—	Tempe	406
Global Business	BS	Financial management, information systems management, international studies, leadership and management, or marketing	West	686
Graphic Design	BSD	—	Tempe	151
History	BA	—	Tempe <sup>3</sup>	386
			West <sup>3</sup>	686
Housing and Urban Development	BSD	—	Tempe <sup>3</sup>	161
Human Health Studies	BA, BS	—	East	559
Industrial Design	BSD	—	Tempe	152
Industrial Engineering <sup>2</sup>	BSE	—	Tempe	260
Industrial Technology	BS	Environmental technology management, graphic information technology, or industrial technology management	East	581

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> This major requires more than 120 semester hours to complete.

<sup>3</sup> This program is also offered through the College of Extended Education.

<sup>4</sup> Applications for this program are not being accepted at this time.

<sup>5</sup> This program is administered by Tempe campus.

## ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration <sup>1</sup>	Campus	Page
Integrated Studies	BA, BS	—	Tempe	336
Integrative Studies	BA	Any minor available at the West campus or individualized concentration	West	686
Interdisciplinary Arts and Performance	BA	Media, music, performance studies, theater/performance, or visual art	West	686
Interdisciplinary Studies	BIS	See the “BIS Concentrations” table, page 126.	East <sup>3</sup> Tempe <sup>3</sup>	540 124
Interior Design	BSD	—	Tempe	153
Italian	BA	—	Tempe	406
Journalism and Mass Communication	BA	Journalism, media analysis and criticism, media management, media production, or strategic media and public relations	Tempe	319
Justice Studies	BS	—	Tempe	397
Kinesiology	BS	Exercise science, movement science, or teacher preparation	Tempe	401
Landscape Architecture	BSLA	—	Tempe	139
Life Sciences	BS	—	West	686
Management	BS	—	Tempe	185
Manufacturing Engineering Technology <sup>2</sup>	BS	Manufacturing engineering technology or mechanical engineering technology	East	588
Marketing	BS	—	Tempe	188
Materials Science and Engineering <sup>2</sup>	BSE	—	Tempe	238
Mathematics	BA	—	Tempe	436
	BS	Optional: statistics <sup>1</sup>	Tempe	436
Mechanical Engineering <sup>2</sup>	BSE	—	Tempe	266
Mechanical Engineering Technology <sup>2</sup>	BS	Aeronautical engineering technology, automation engineering technology, or mechanical engineering technology	East	589
Microbiology	BS	—	Tempe	424
Molecular Biosciences/ Biotechnology	BS	—	Tempe	424
Multimedia Writing and Technical Communication	BS	—	East	560
Music	BA	—	Tempe	300
Music Education <sup>2</sup>	BM	Choral-general, instrumental, or string	Tempe	300
Music Therapy <sup>2</sup>	BM	—	Tempe	302
Nursing	BSN	—	East <sup>3,5</sup> Tempe <sup>3</sup> West <sup>3,5</sup>	540 476 686
Nutrition	BS	Dietetics, food and nutrition management, human nutrition, or nutrition communication	East	562
Performance	BM	Guitar, jazz, keyboard, music theatre, orchestral instrument, piano accompanying, or voice	Tempe	303
Philosophy	BA	—	Tempe	446
Physics	BS	—	Tempe	448

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.<sup>2</sup> This major requires more than 120 semester hours to complete.<sup>3</sup> This program is also offered through the College of Extended Education.<sup>4</sup> Applications for this program are not being accepted at this time.<sup>5</sup> This program is administered by Tempe campus.



## ASU BACCALAUREATE DEGREES

### ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration <sup>1</sup>	Campus	Page
Plant Biology	BS	Environmental science and ecology or plant biochemistry and molecular biology	Tempe	425
Political Science	BA, BS	—	Tempe <sup>3</sup> West	453 686
Psychology	BA, BS	—	Tempe <sup>3</sup> West <sup>3</sup>	458 686
Real Estate	BS	—	East	549
Recreation	BS	Recreation management or tourism management	Tempe	488
Recreation and Tourism Management	BS	—	West	686
Religious Studies	BA	—	Tempe <sup>3</sup>	462
Russian	BA	—	Tempe	406
Secondary Education	BAE	Academic specializations: biological sciences, business, chemistry, Chicana and Chicano studies, <sup>4</sup> economics, English, family and human development, <sup>4</sup> French, geography, German, history, Japanese, mathematics, physics, political science, social studies, or Spanish Academic specializations: English, history, mathematics, or social studies Academic specialization: physical education	Tempe  West East	197  686 551
Selected Studies in Education <sup>4</sup>	BAE	—	Tempe	203
Social and Behavioral Sciences	BA, BS	—	West	686
Social Work	BSW	—	Tempe <sup>3</sup> West <sup>3</sup>	493 686
Sociology	BA	—	Tempe <sup>3</sup> West <sup>3</sup> West <sup>3</sup>	466 686 686
Spanish	BA	—	Tempe West	407 686
Special Education	BAE	—	Tempe West	197 686
Speech and Hearing Science	BS	—	Tempe	469
Supply Chain Management	BS	—	Tempe	189
Theatre	BA	Optional: acting or scenography <sup>1</sup>	Tempe	313
Theory and Composition	BM	Composition or theory	Tempe	306
Urban Planning	BSP	—	Tempe	160
Women and Gender Studies	BA	—	Tempe	472
Women's Studies	BA, BS	—	West	686

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> This major requires more than 120 semester hours to complete.

<sup>3</sup> This program is also offered through the College of Extended Education.

<sup>4</sup> Applications for this program are not being accepted at this time.

<sup>5</sup> This program is administered by Tempe campus.

# University Calendar

## March 2005

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## April 2005

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

## May 2005

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## June 2005

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## July 2005

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## August 2005

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## 2005

Check the 2005 *Summer Sessions Bulletin* for details and to confirm these dates.

Sun., Mar. 20–  
Tues., May 31

Registration and drop/add for first five-week session and eight-week session

Sun., Mar. 20–  
Fri., July 1

Registration and drop/add for second five-week session

Tues., May 3

Final tuition payment deadline for all summer sessions (For students who register on or after the deadline, fees are due daily.)

Mon., May 30

Memorial Day holiday

Tues., May 31

Instruction begins for first five-week session and eight-week session

Fri., June 17

Course withdrawal deadline for first five-week session and eight-week session

Fri., July 1

August graduation filing deadline

Fri., July 1

Complete withdrawal deadline for first five-week session

Fri., July 1

First five-week session ends

Mon., July 4

Classes are excused for Independence Day holiday

Tues., July 5

Instruction begins for second five-week session

Fri., July 22

Complete withdrawal deadline for eight-week session

Fri., July 22

Course withdrawal deadline for second five-week session

Fri., July 22

Eight-week session ends

Fri., Aug. 5

Complete withdrawal deadline for second five-week session

Fri., Aug. 5

Second five-week session ends

## 2005

## Fall Semester

Check the fall 2005 *Schedule of Classes* for details and to confirm these dates.

Thurs., Mar. 24–  
Fri., Apr. 1

Preregistration

Mon., Apr. 18–  
Sun., Aug. 28

Drop/add

Wed., Apr. 20–  
Sun., Aug. 28

Registration

Tues., Aug. 2

Final tuition payment deadline for fall 2005 (For students who register on or after the deadline, fees are due daily.)

Tues., Aug. 16–  
Sat., Aug. 20

Residence halls open (Check-in date varies by community/last name. Refer to the Residential Life schedule.)

Thurs., Aug. 18

New Faculty and Academic Professional Orientation and Reception

Thurs., Aug. 18–  
Sun., Aug. 21

ASU Sun Devil 101

Mon., Aug. 22

Instruction begins

Mon., Sept. 5

Classes are excused for Labor Day holiday

Mon., Oct. 17

December graduation filing deadline

Sun., Oct. 30

Course withdrawal deadline

# UNIVERSITY CALENDAR

## September 2005

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## October 2005

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## November 2005

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## December 2005

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## January 2006

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

## February 2006

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

Fri., Nov. 11 Classes are excused for Veterans Day holiday  
 Thurs., Nov. 24– Classes are excused for Thanksgiving recess  
 Fri., Nov. 25

Tues., Dec. 6 Complete withdrawal deadline  
 Tues., Dec. 6 Instruction ends  
 Wed., Dec. 7 Reading day  
 Thurs., Dec. 8– Final examinations  
 Wed., Dec. 14

Thurs., Dec. 15 Commencement  
 Fri., Dec. 16 Residence halls close for semester break  
 Sat., Dec. 17 Midyear recess begins

## 2005

Call 480/727-9900 to confirm dates for Winter Session.

Mon., Oct. 3 Winter Session registration begins  
 Tues., Dec. 27 Winter Session instruction begins  
 Mon., Jan. 2, 2006 Winter Session classes are excused for New Year's Day holiday  
 Fri., Jan. 13, 2006 Winter Session instruction ends

## 2006

Check the spring 2006 *Schedule of Classes* for details and to confirm these dates.

Mon., Oct. 24– Preregistration  
 Tues., Nov. 1, 2005

Mon., Nov. 14, 2005– Drop/add  
 Sun., Jan. 22, 2006

Wed., Nov. 16, 2005– Registration  
 Sun., Jan. 22, 2006

Tues., Dec. 13, 2005 Final tuition payment deadline for spring 2006 (For students who register on or after the deadline, fees are due daily.)

Wed., Jan. 11 Residence halls open

Date Not Yet Available Orientation for new students

Mon., Jan. 16 Classes are excused for Martin Luther King Jr. Day holiday

Tues., Jan. 17 Instruction begins

Sun., Mar. 12– Classes are excused for spring recess; semester midpoint  
 Sun., Mar. 19

Fri., Mar. 31 May graduation filing deadline

Sun., Apr. 2 Course withdrawal deadline

Tues., May 2 Complete withdrawal deadline

Tues., May 2 Instruction ends

Wed., May 3 Reading day

Thurs., May 4– Final examinations  
 Wed., May 10

Thurs., May 11 Commencement

Fri., May 12 Residence halls close

## 2006

Check the 2006 *Summer Sessions Bulletin* for details and to confirm these dates.

Tues., Jan. 31– Registration and drop/add for first five-week session  
 Wed., May 31 and eight-week session

## Winter Session

## Spring Semester

## Summer Sessions

# UNIVERSITY CALENDAR

## March 2006

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## April 2006

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

## May 2006

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## June 2006

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

## July 2006

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## August 2006

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Tues., Jan. 31–  
Wed., July 5

Tues., May 2

Mon., May 29

Tues., May 30

Fri., June 16

Fri., June 30

Fri., June 30

Mon., July 3

Mon., July 3

Tues., July 4

Fri., July 21

Fri., July 21

Fri., July 21

Fri., Aug. 4

Fri., Aug. 4

Registration and drop/add for second five-week session

Final tuition payment deadline for all summer sessions (For students who register on or after the deadline, fees are due daily.)

Memorial Day holiday

Instruction begins for first five-week session and eight-week session

Course withdrawal deadline for first five-week session and eight-week session

Complete withdrawal deadline for first five-week session

First five-week session ends

August graduation filing deadline

Instruction begins for second five-week session

Classes are excused for Independence Day holiday

Complete withdrawal deadline for eight-week session

Course withdrawal deadline for second five-week session

Eight-week session ends

Complete withdrawal deadline for second five-week session

Second five-week session ends

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# Frequently Asked Questions

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**How do I apply to ASU?** Complete an application at [www.asu.edu/apply](http://www.asu.edu/apply). If you are applying for a major on the East or Tempe campus, have all required transcripts and test scores sent directly to

UNDERGRADUATE ADMISSIONS  
PO BOX 870112  
TEMPE AZ 85287-0112

If you are applying for a major on West campus, have test scores sent to the Tempe campus and transcripts sent to

ASU AT THE WEST CAMPUS ADMISSION  
SERVICES  
PO BOX 37100  
PHOENIX AZ 85069-7100

For more information, see "Undergraduate Admission," page 66, for the East and Tempe campuses; or see "West Campus," page 685. Or call the East campus at 480/727-3278, the Tempe campus at 480/965-7788, or the West campus at 602/543-8203.

**Can I transfer college credit?** ASU accepts college-level (not remedial) course credit in which you have earned a grade of "C" (4.00=A) or higher from regionally accredited institutions. It is up to the ASU college or school of your major to determine how transferable courses fulfill degree requirements at ASU. You must be admitted to ASU before an academic advisor can evaluate your transcripts. You may transfer up to 64 credits from a two-year college. While there is no limit to the number of courses that you may transfer from a regionally accredited, four-year institution, you must earn a minimum of 30 semester hours at ASU to receive a degree from ASU.

**What if I have a disability or am a veteran?** If you have a disability and will be requesting academic accommodations, see "Disability Resource Center," page 48, and "Applicants with Disabilities," page 72. If you're a student who is a veteran using GI benefits, see "Veterans Services," page 66.

**How do I get financial aid?** In addition to applying for admission, complete the *Free Application for Federal Student Aid* (FAFSA) by the February 15 ASU priority filing date. If you apply after this date, you are considered a late applicant and are less likely to receive some aid types, including grants, Federal Work-Study, and Federal Perkins loans. You may complete an electronic application at [www.fafsa.ed.gov](http://www.fafsa.ed.gov) or obtain a paper FAFSA from any high school or college in your community. See "Student Financial Assistance," page 65, and "Financial Aid," page 59.

**How do I find a place to live and purchase a meal plan?** Apply early (before February 1) for the best chance to live on campus beginning in the fall semester. Housing is not guaranteed. See "Residential Life," page 45. Meal plans may be purchased in advance or upon arrival on campus; for

more information call Residential Life at 480/965-3515, and Campus Dining at 480/965-3464. For East campus housing, call 480/727-1700, or see "Campus and Student Services," page 528. For housing at the West campus, call 602/543-2272.

**What about orientation?** Complete orientation. It provides answers to your questions about class registration, student IDs, on-campus housing, student activities, and more. Call 480/727-1359 for information about East campus orientation. For more information about Tempe campus orientation, see "Freshman Orientation," page 72. Tempe transfer students can complete orientation online at [www.asu.edu/admissions/transferorientation](http://www.asu.edu/admissions/transferorientation). Call 602/543-8203 for West campus orientation information, or access the Web site at [www.west.asu.edu/gowest](http://www.west.asu.edu/gowest).

**How do I get an ID, and what about parking?** See "Proof of Identification," page 79, about obtaining an ASU student ID card. If you are planning to park at any of the ASU campuses, you must purchase a parking decal. See "Parking Decals," page 54. East campus students may obtain student ID cards in the Union and parking decals in the Student Affairs Complex, Bldg. 350.

**What about placement examinations and university testing requirements?** See "Placement Examinations," page 77, and "University Testing Requirements," page 77.

**Before I register for classes, how do I get an advisor?** Call the college of your major to schedule an appointment with an academic advisor. See "Academic Advising," page 77. For East campus Academic Advising, see "Advising," page 528.

**When and how do I register?** See the *Schedule of Classes* for registration procedures and dates, or access registration information online at [www.asu.edu/registrar](http://www.asu.edu/registrar). Remember that you must first provide proof of measles immunity to the Student Health and Wellness Center. See "Immunization Requirements," page 72.

**Once I am registered, how can I ensure my success at ASU?** Consider enrolling in UNI 100. See "University College," page 123.

**What's left to do now that the business is taken care of?** Become involved by getting to know professors, joining student organizations, and taking advantage of the many cultural, recreational, and social opportunities. For more information on Tempe campus life, call Student Life at 480/965-6547, Sun Devil Involvement Center at 480/965-2255, the Student Recreation Complex at 480/965-8900, or ASASU at 480/965-3161, or see "Student Services," page 45; for the East campus, call 480/727-3278. Investigate the challenges and advantages of the Barrett Honors College. See "The Barrett Honors College," page 129.



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# Academic Definitions

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**Academic Renewal.** Under certain circumstances an undergraduate who has been readmitted to the university after an absence of at least five years may have the former record treated in the same manner as transfer credits. See "Academic Renewal," page 79.

**Advanced Placement.** Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an Advanced Placement Examination of the CEEB may receive credit. See "Advanced Placement," page 73.

**AIECP.** The American English and Culture Program features an intensive course of study designed for adult international students who desire to become proficient in English as a second language. See "American English and Culture Program," page 72.

**Audit Enrollment.** A student who audits a course attends regularly scheduled class sessions but earns no credit. See "Audit Enrollment," page 82.

**Buckley Amendment.** See "Family Educational Rights and Privacy Act" in this section.

**CLEP.** As part of the College-Level Examination Program (CLEP), students who have taken a College-Level Examination of the College Entrance Examination Board may receive credit. See "College-Level Examination Program (CLEP)," page 73.

**Complete Withdrawal.** A student may withdraw with a grade of "W" from all classes through the semester transaction deadline.

**Comprehensive Exam.** A comprehensive examination is intended to permit a student to establish academic credit in a field in which the student has gained experience or competence equivalent to an established university course. See "Comprehensive Examinations," page 73.

**Concentration.** A concentration is a formalized selection of courses within a major.

**Cooperative Education.** Cooperative Education is any educational program that requires alternating classroom and work experience in government or industry. The work experience exists for its educational value. See "Cooperative Programs," page 80.

**Corequisite.** A requirement to be met *while* taking one course, such as taking another particular course, is a corequisite. See also "Prerequisite" in this section.

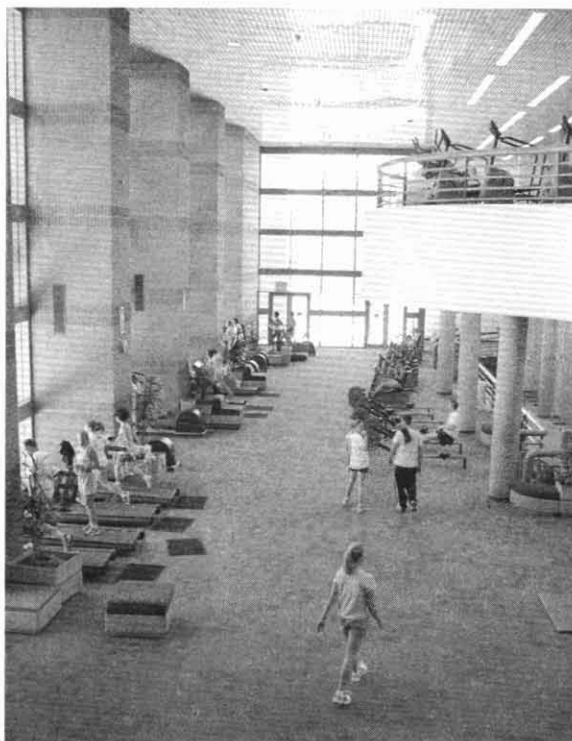
**Course Prefix.** A course prefix is a three-letter designation assigned to a group of courses. The "Course Prefix Index," page 7, provides a comprehensive list. See also "Cross-Listing" in this section.

**Course Withdrawal.** During the second week through the 10th week of a semester or the third day through the third week of a summer session or at the midpoint of the term for winter and flexibly scheduled sessions, a student may withdraw from any course with a mark of "W." See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the withdrawal period.

**Credit Enrollment.** One semester hour represents a minimum of one 50-minute class exercise per week per semester. A minimum of 120 semester hours is required for graduation with a baccalaureate degree. To obtain credit, a student must be properly registered and pay fees for the course.

**Cross-Listing.** One course may have more than one course prefix and may be offered by more than one instruction unit. Some units may require students to enroll in a course under a certain prefix to receive credit properly. Catalog course descriptions indicate courses that are cross-listed.

**Cum Laude.** An undergraduate student with a minimum of 56 semester hours of course work at ASU and a cumulative GPA of 3.40 to 3.59 graduates *cum laude*. See "Graduation with Academic Recognition," page 91. See also "Magna Cum Laude" and "Summa Cum Laude" in this section.



The Student Recreation Complex offers students many workout possibilities.

Tim Trumble photo

## ACADEMIC DEFINITIONS

**Declaration of Graduation.** The Declaration of Graduation uses the Degree Audit Reporting System (DARS). DARS is an automated process that matches courses a student has completed with the requirements of a particular academic degree program, producing a report that shows the student which requirements are satisfied and which remain to be fulfilled. See "Declaration of Graduation," page 90.

**Drop/Add.** Drop/add is a process in which a student who has registered for courses for a semester or summer session may drop or add courses through the first week of classes in a semester or the first two days of a summer session. See "Drop/Add," page 82.

**Family Educational Rights and Privacy Act.** The federal Family Educational Rights and Privacy Act of 1974, also known as FERPA or the Buckley Amendment, sets forth the requirements governing the protection of the privacy of the education records of students who are or have been in attendance at ASU. See "Student Records," page 86.

**Freshman.** A student who has earned 24 or fewer semester hours is a freshman.

**General Studies Requirement.** This is a university requirement of all undergraduates. See "Meeting the General Studies Requirement," page 92.

**GPA.** The ASU grade point average (GPA) is obtained by dividing the total number of ASU grade points earned by the number of ASU semester hours graded "A" (4.00), "B" (3.00), "C" (2.00), "D" (1.00), or "E" (0.00). Grade point averages are rounded to the nearest hundredth of a grade point. See "Grade Point Average," page 83.

**Grade Points.** For the purpose of computing the GPA, grade points are assigned to each of the grades for each semester hour. For example, three points are assigned for a "B." See "Grades and Marks," page 81.

**Graduate Catalog.** The *Graduate Catalog* describes the procedures and requirements for enrollment in the Division of Graduate Studies. See "Division of Graduate Studies," page 498.

**Graduate-Level Courses.** Courses numbered from 500 to 799 are designed for graduate students. See "Graduate-Level Courses," page 62.

**Incomplete.** A mark of "I" (incomplete) is given by the instructor only when a student who is otherwise doing acceptable work is unable to complete a course because of illness or other conditions beyond the student's control. See "Incomplete," page 81.

**International Baccalaureate.** Students who have taken a higher-level examination through the International Baccalaureate program may receive university credit. See "International Baccalaureate (IB) Diploma/Certificate," page 73.

**Junior.** A student who has earned from 56 to 86 semester hours is a junior.

**Lower-Division Courses.** Courses numbered from 100 to 299 are designed primarily for freshmen and sophomores. See "Lower-Division Courses," page 62.

**Magna Cum Laude.** A student with a minimum of 56 semester hours of course work at ASU and a cumulative

GPA of 3.60 to 3.79 graduates *magna cum laude*. See "Graduation with Academic Recognition," page 91. See also "Cum Laude" and "Summa Cum Laude" in this section.

**Major.** A major is a formalized group of courses contained within the program of study. See "ASU Baccalaureate Degrees," page 12, and "ASU Graduate Degrees," page 510.

**Minor.** A minor is a formalized group of courses contained within the program of study available from some instruction units. See "Minors," page 117.

**Omnibus Course.** An omnibus course is offered on an experimental or tutorial basis when the course content is new or periodically changes. See "Omnibus Courses," page 63.

**Pass/Fail Enrollment.** A mark of "P" (pass) or "E" (0.00) (fail) may be assigned for this grading option. This grading method may be used at the option of individual colleges and schools within the university. See "Pass/Fail Enrollment," page 82.

**Placement Examination.** A proficiency examination is given to waive a course requirement, validate certain transfer credits in professional programs, or determine a student's ability in a field where competence is an important consideration. See "Placement Examinations," page 77.

**Prerequisite.** A requirement to be met *before* registering for one course, such as completing another particular course, is a prerequisite. See also "Corequisite" in this section.

**Probation.** A student's college assumes responsibility for enforcing academic standards and may place any student on probation who has failed to maintain good standing. A student on academic probation is required to observe any rules or limitations the college may impose as a condition for retention. See "Probation," page 85.

**Senior.** A student who has earned 87 or more semester hours is a senior.

**Sophomore.** A student who has earned from 25 to 55 semester hours is a sophomore.

**Summa Cum Laude.** A student with a minimum of 56 semester hours of course work at ASU and a cumulative GPA of 3.80–4.00 graduates *summa cum laude*. See "Graduation with Academic Recognition," page 91. See also "Cum Laude" and "Magna Cum Laude" in this section.

**TOEFL.** The Test of English as a Foreign Language (TOEFL) is taken by students whose native language is not English. See "TOEFL," page 71, and "AECPP," in this section.

**Transcript.** An official transcript lists in chronological order all courses taken at ASU. It includes all grades received. It is signed and dated by the registrar and displays the seal of the university. Unofficial transcripts include all information shown on the official transcript, plus information concerning changes, additions, etc., to the record. See "Transcripts," page 84.

**Upper-Division Courses.** Courses numbered from 300 to 499 are designed primarily for juniors and seniors. See "Upper-Division Courses," page 62.

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# General Information

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Arizona State University has emerged as a leading national and international research and teaching institution. Located in the Phoenix metropolitan area, this rapidly growing, multicampus public research university offers programs from the baccalaureate through the doctorate for approximately 58,156 full-time and part-time students through ASU at the Tempe campus; the West campus in northwest Phoenix; a major educational center in downtown Phoenix; the East campus, located at the Williams Campus (formerly Williams Air Force Base) in southeast Mesa; and other instructional, research, and public service sites throughout Maricopa County. See the "Fall 2004 Enrollment" table below.

**Fall 2004 Enrollment**

Type	Students
Total	58,156
East campus	3,983
Tempe campus	49,171
West campus	7,348
National Merit Scholars (incoming freshmen)	162

## MISSION

Arizona State University's goal is to become a world-class university in a multicampus setting. Its mission is to provide outstanding programs in instruction, research, and creative activity, to promote and support economic development, and to provide service appropriate for the nation, the state of Arizona, and the state's major metropolitan area. To fulfill its mission, ASU places special emphasis on the core disciplines and offers a full range of degree programs—baccalaureate through doctorate, recognizing that it must offer quality programs at all degree levels in a broad range of fundamental fields of inquiry. ASU will continue to dedicate itself to superior instruction; to excellent student performance; to original research, creative endeavor, and scholarly achievement; and to outstanding public service and economic development activities. As a result of this dedication, ASU was named to Research Extensive (formerly Research I) status in 1994, recognizing ASU as a premier research institution.

## ORGANIZATION

Arizona State University is part of a university system governed by the Arizona Board of Regents, a body with perpetual succession under the constitution and laws of Arizona. The board consists of eight citizens appointed by the governor of the state for terms of eight years, and two students; the elected governor and state superintendent of public instruction are members ex officio.

The regents select and appoint the president of the university, who is the liaison between the Arizona Board of Regents and the institution. The president is aided in the administrative work of the institution by the provosts, vice presidents, deans, directors, department chairs, faculty, and other officers. Refer to "Tempe Campus Administrative Personnel," page 680.

The academic units develop and implement the teaching, research, and service programs of the university, aided by the university libraries, museums, and other services.

The faculty and students of the university play an important role in educational policy, with an Academic Senate, joint university committees and boards, and the Associated Students serving the needs of a large institution.

## ACADEMIC ACCREDITATION AND AFFILIATION

See "Accreditation and Affiliation," page 712.

## EQUAL OPPORTUNITY AND AFFIRMATIVE ACTION

It is the policy of ASU to provide equal opportunity through affirmative action in employment and educational programs and activities. Discrimination is prohibited on the basis of race, color, religion, national origin, citizenship, sex, gender identity, sexual orientation, age, disability, special disabled veteran, other protected veteran, or Vietnam-era veteran status. Equal employment opportunity includes but is not limited to recruitment, hiring, promotion, termination, compensation, benefits, transfers, university-sponsored training, education, tuition assistance, and social and recreational programs.

ASU is committed to taking affirmative action in increasing opportunities at all levels of employment and to increasing participation in programs and activities by all faculty, staff, and students. Affirmative action is directed toward minority persons, women, special disabled veterans, other protected veterans, Vietnam-era veterans, and persons with disabilities.

## University Policy Prohibiting Discriminatory Harassment

**Harassment Prohibited.** Subject to the limiting provisions of "Freedom of Speech and Academic Freedom" specified below, it is a violation of university policy for any university employee or student to subject any person to harassment on university property or at a university-sponsored activity.

**Harassment Defined.** Actions constitute harassment if (1) they substantially interfere with another's educational or employment opportunities, peaceful enjoyment of residence, or physical security, and (2) they are taken with a general intent to engage in the actions and with the knowledge that the actions are likely to substantially interfere with a protected interest identified above. Such intent and knowledge may be inferred from all the circumstances.

## GENERAL INFORMATION

**Freedom of Speech and Academic Freedom.** Neither this nor any other university policy is violated by actions that amount to expression protected by the state or federal constitutions or by related principles of academic freedom. This limitation is further described in the ASU First Amendment Guidelines, the current version of which supplements this policy and is available in the Office of General Counsel.

**Relationship to the Work of the Campus Environment Team.** If harassment is discriminatory, it falls within the education, monitoring, reporting, and referral functions of the Campus Environment Team. Harassment is discriminatory if taken with the purpose or effect of differentiating on the basis of another person's race, sex, gender identity, color, national origin, religion, age, sexual orientation, disability, or Vietnam-era veteran status.

### Student Antiretaliation Statement

Students have the right to be free from retaliation. Threats or other forms of intimidation or retribution against a student who files a complaint or grievance, requests an administrative remedy, participates in an investigation, appears as a witness at an administrative hearing, or opposes an unlawful act, discriminatory practice or policy, are prohibited. Individuals making such threats are subject to university disciplinary procedures. Students with complaints of retaliation should utilize the procedures available under the *Arizona Board of Regents Student Code of Conduct*, the Graduate Student Grievance Procedure, the Student Employee Grievance Procedure, the Sexual Harassment Policy, non-discrimination policies, or other available administrative procedures as appropriate. For assistance with procedures, students should contact the dean of the particular college if the circumstances relate to a course or academic evaluation, or the dean of students for all other circumstances.

## INTERGROUP RELATIONS CENTER

The first-of-its-kind, student-founded Intergroup Relations Center (IRC) enhances the university's primary directives of teaching and learning through the application of social justice approaches to diversity, intergroup relations programming, and scholarship in partnership with campus and external communities.

Through structured interaction programs for faculty, staff, and students—including intergroup dialogues, retreats, institutes, and educational and training workshops—the center promotes diversity as one of the university's greatest assets. The educational work of the center encompasses gender, race, age, ethnicity, sexual orientation, disability status, nationality, adult re-entry, and other salient social identities found at ASU.

The center offers student programs that complement courses. For example, the Voices of Discovery intergroup dialogue program brings together small groups of students from different backgrounds for honest, reflective dialogue guided by trained facilitators. Additional programs include weekend retreats on diversity in the professions and on service leadership, and research and practicum internships on diversity and social justice issues.

For faculty and staff, the center offers initiatives addressing issues of diversity in the workplace and the classroom.

These include the annual Faculty Diversity Conference which explores research, pedagogy, and curriculum resources for instructors, and the Diversity Summit Series which provides opportunities to talk and work with nationally and internationally recognized scholars, master teachers, and policy experts.

IRC participates in and offers involvement opportunities with national research. These include program and publication initiatives on intergroup dialogues, anti-bias education, women of color in academia, and diverse democracy outcomes.

For more information regarding diversity resources and ways to get involved, visit the Intergroup Relations Center in SSV 278, call 480/965-1574, or access the IRC Web site at [www.asu.edu/provost/intergroup](http://www.asu.edu/provost/intergroup).

## HISTORY OF ARIZONA STATE UNIVERSITY

On February 26, 1885, House Bill 164, "An Act to Establish a Normal School in the Territory of Arizona," was introduced in the 13th Legislative Assembly of Arizona Territory by John Samuel Armstrong. The bill, strongly supported by Charles Trumbull Hayden of Tempe, passed the House on March 6 and the Council on March 11 and was signed by Governor F.A. Tittle on March 12, 1885, thereby founding the institution known today as Arizona State University. Under the supervision of Principal Hiram Bradford Farmer, instruction was instituted on February 8, 1886, when 33 students met in a single room on land donated by George and Martha Wilson of Tempe.

The institution began with the broad obligation to provide "instruction of persons...in the art of teaching and in all the various branches that pertain to good common school education; also, to give instruction in the mechanical arts and in husbandry and agricultural chemistry, the fundamental law of the United States, and in what regards the rights and duties of citizens."

With the growth of the state, especially the surrounding Phoenix metropolitan area, the school has carried forward this charter, accompanied by successive changes in scope, name, and governance.

**The Early Years.** For the first 14 years, the school was governed by six principals. At the turn of the century and with another new name, Normal School of Arizona, President Arthur John Matthews brought a 30-year tenure of progress to the school.

He assisted in changing the school to an all-college student status; the Normal School had enlisted high school students who had no other secondary educational facilities in Arizona. He embarked on a building schedule that included the state's first dormitories. Of the 18 buildings constructed while Matthews was president, six are still in use. His legacy of an "evergreen campus," with the import of many shrubs and trees and the planting of Palm Walk, continues to this day: the Tempe campus is a nationally recognized arboretum.

Matthews also saw to it that the Normal School was accredited outside the state. His service on national education organization boards was conducive to this recognition. The school remained a teacher's college in fact and theory

during Matthews' tenure, although the struggle to attain status as a university was ongoing.

An extraordinary event occurred March 20, 1911, when former President Theodore Roosevelt visited the Tempe school and spoke from the steps of Old Main. He had dedicated the Roosevelt Dam the day before and was impressed with Arizona. He noted that construction of the dam would benefit central Arizona's growth and that of the Normal School. It would be another year before the territory became a state.

During the Great Depression, Ralph W. Swetman was hired as president for a three-year term. This was a time of uncertainty for educational institutions. Although enrollment increased due to the depression, many faculty were terminated and faculty salaries were cut. The North Central Association became the accrediting agency for Arizona State Teachers College.

**The Gammage Years.** In 1933, Grady Gammage, then president of Arizona State Teachers College at Flagstaff, became president of Arizona State Teachers College at Tempe, a tenure that would last for nearly 28 years.

The Graduate Division was created in 1937, and the first master's program was established the same year.

On March 8, 1945, the three state institutions of higher learning came under the authority of one Arizona Board of Regents, which oversees ASU today.

The phenomenal growth of the college began after the end of World War II. Dr. Gammage had foreseen that the G.I. Bill of Rights would flood campuses everywhere with returning veterans. Many of the veterans who had received military training in Arizona had fallen in love with the state and vowed to return after the war. The numbers within one year were staggering: in the fall semester of 1945, 553 students were enrolled; over the weekend semester break in January 1946, enrollment increased 110 percent to 1,163 students. Successive semesters saw continuing increased enrollment.

Like his predecessor, Dr. Gammage oversaw the construction of a number of buildings. His greatest dream, that of a great auditorium, came to fruition after his death. He laid the groundwork for it with Frank Lloyd Wright, who designed what is now the university's hallmark building, Grady Gammage Memorial Auditorium, built in 1964.

**Years of Growth and Stature.** During the 1960s, with the presidency of Dr. G. Homer Durham, Arizona State University began its academic rise with the establishment of several new colleges (the College of Fine Arts, the College of Law, the College of Nursing, and the School of Social Work) and the reorganization of what became the College of Liberal Arts and Sciences and the College of Engineering and Applied Sciences. Perhaps most important, the university gained the authority to award the Doctor of Philosophy and other doctoral degrees.

The next three presidents—Harry K. Newburn, 1969–71, John W. Schwada, 1971–81, and J. Russell Nelson, 1981–89—and Interim President Richard Peck, 1989, led the university to increased academic stature, expansion of the campuses, and rising enrollment.

Under the leadership of Dr. Lattie F. Coor, from 1990 to June 2002, ASU grew to serve the Valley of the Sun through

multiple campuses and extended education sites. His commitment to diversity, quality in undergraduate education, research, and economic development underscored the university's significant gains in each of these areas over his 12-year tenure. Part of Dr. Coor's legacy to the university was a successful fund-raising campaign. Through private donations, primarily from the local community, more than \$500 million was invested in targeted areas that significantly impact the future of ASU. Among the campaign's achievements were the naming and endowing of the Barrett Honors College, the Katherine K. Herberger College of Fine Arts, and the Morrison School of Agribusiness and Resource Management at the East campus; the creation of many new endowed faculty positions; and hundreds of new scholarships and fellowships.

**A New Vision.** ASU entered a new era on July 1, 2002, when Michael M. Crow joined the university as its 16th president. At his inauguration, President Crow highlighted his vision for transforming ASU into a New American University—one that is open and inclusive; that embraces its cultural, socioeconomic, and physical setting; and that promotes use-inspired research. As the only research university serving the entire metropolitan Phoenix area, ASU is in a unique position to evolve together with the city into one of the great intellectual institutions in the world.

A strong foundation already is in place to move Dr. Crow's vision forward. ASU admitted its largest and highest-quality freshman class ever in fall 2003 and has developed nationally recognized programs in a number of fields, including accounting, astrobiology, design science, creative writing, music, ecology and evolutionary biology, electron microscopy, nanotechnology, psychology, solid-state science, and supply chain management.

In addition, ASU has embarked on its most aggressive capital building effort in more than a decade. The university is adding one million square feet of world-class, grade A research infrastructure, with the first building—Phase I of the Biodesign Institute at Arizona State University—was completed in October 2004. ASU will take a leading role in biomedicine and biotechnology, designing new therapies, new vaccines, new diagnostic devices, and better delivery methods.

In addition, the university has undertaken a significant realignment initiative known as "One University in Many Places," which adopts a college/school-centric model for restructuring ASU across four distinct full-service campuses Valley-wide.

**Research Extensive Status.** ASU was named to Research Extensive (formerly Research I) status by the Carnegie Foundation for the Advancement of Teaching in early 1994. Nationally, 88 universities have been granted this status, indicating successful garnering of support for research projects and educating future scientists.

### Athletics

The original nickname for the Normal School of Arizona athletic teams was the Owls. Athletics other than Sunday hikes and lawn tennis were not part of the early curriculum.

During President Matthews' tenure, some team competition began. The Tempe Bulldogs saw some interesting and

## GENERAL INFORMATION

rough competition with the University of Arizona Wildcats. In the 1940s, the college's teams became the Sun Devils.

In 1979, the university joined the Pacific-10 Conference. In 1987, ASU became the first Arizona football team to play in the Rose Bowl, defeating the University of Michigan Wolverines 22–15. ASU made its second appearance in 1997 against Ohio State.

In 2003, ASU finished 10th nationally in the Sears Directors' Cup, which recognizes the top athletic programs in the country. Ten teams finished in the top 20 nationally with five teams posting top 10 finishes. Wrestling finished fifth; men's golf, sixth; baseball, seventh; gymnastics, ninth; and women's swimming/diving, 10th.

## UNIVERSITY CAMPUSES AND SITES

ASU comprises the East campus, Tempe campus, West campus, Downtown Phoenix campus, the ASU Research Park, and various other entities and facilities. See the "ASU Campus Locations" map, page 27.

**Downtown Phoenix Campus.** See "Downtown Phoenix Campus," page 525.

**East Campus.** The polytechnic campus of the university, the East Campus opened in 1996 and serves more than 3,500 undergraduate and graduate students. Located in the East Valley, the 600-acre campus offers many of the features of a small residential college in a suburban area while providing access to the resources of the Tempe Campus and the amenities of the metropolitan Phoenix area.

The East Campus offers a variety of bachelor's and master's degrees, certificate programs, and, through partnerships with programs at the Tempe Campus, select doctoral degrees. Sharing the campus with the East campus are two community colleges, an elementary school, a regional airport, a golf course, and several corporate research facilities. A partnership with Chandler-Gilbert Community College provides lower-division general education, general interest, and major prerequisite courses to East Campus students and transfers the credits seamlessly to ASU.

Fully mediated classrooms and specialized educational facilities such as the Microelectronics Teaching Factory, the Graphic Information Technology Facility, and the flight program's Altitude Chamber offer unique teaching-learning opportunities for East Campus students.

On-campus housing for married students and families in addition to traditional residence halls for single students are available at East Campus. The Freshman Year Experience residence halls at East Campus offer a specialized community that integrates a variety of academic resources into residential life.

A shuttle service provides transportation between the East Campus and the Tempe Campus. The campus, located at Power and Williams Field Roads in Mesa, is easily accessible via major interstate routes. For more information, see "East Campus," page 526.

**Tempe Campus.** The Tempe campus is located near the heart of metropolitan Phoenix in the city of Tempe (population 159,615). Nearby are the municipalities that make up the fast-growing Valley of the Sun: Chandler, Gilbert, Glendale, Mesa, Scottsdale, and other communities.

The Tempe campus comprises more than 700 acres and offers outstanding physical facilities to support the university's educational programs. The campus is characterized by broad pedestrian malls laid out in an easy-to-follow grid plan, spacious lawns, and subtropical landscaping.

**West Campus.** The West campus of ASU, located in northwest Phoenix, is a vital component of ASU. The campus serves more than 7,300 students, offering a highly personalized, student-centered education. It offers an interdisciplinary education for undergraduates, as well as an array of professional programs grounded in the liberal arts. The West campus offers 30 bachelor's degree programs, nine master's degrees, and eight professional certificates.

West campus's colleges and schools are a force in the creation and communication of knowledge through its interdisciplinary teaching, research, and outreach programs. West campus faculty are active scholars engaged in a wide variety of research to enhance the community, build new knowledge, and expand the frontiers of science. Research activities are diverse, including quality-of-life issues in the metropolitan region, applied leadership challenges for public and private organizations, and enhanced teacher education. Students benefit from the unique blend of interactive, classroom-based learning communities, community- and field-based learning experiences, and faculty-student research partnerships that address important societal issues.

The West campus commitment to integrated learning extends to Las Casas, an apartment-style, living-learning-based housing facility. Las Casas features faculty and academic advisors who live in the residence, faculty mentors, courses taught on site at the community center, and student affinity groups focusing on topics such as global awareness, leadership, and the arts.

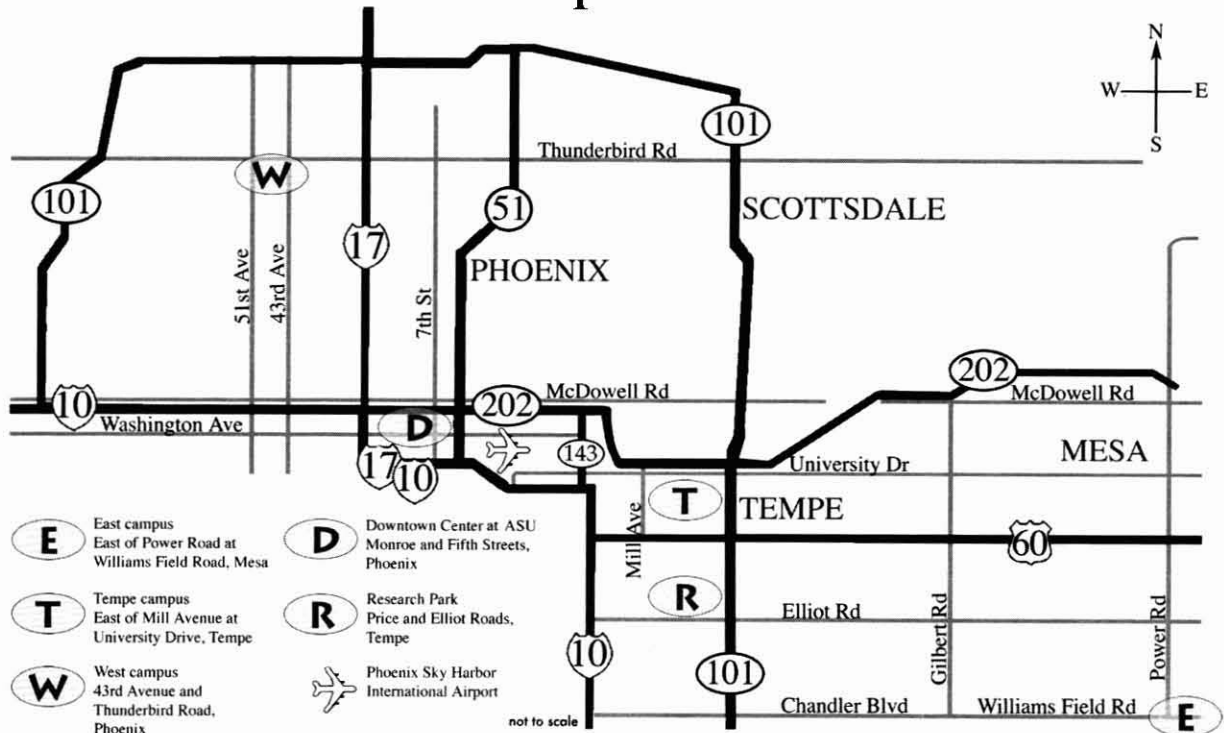
As a full-service campus, West campus includes a child development center, student health center, bookstore, fitness center, credit union, computer center, food service facilities, theater, and meeting rooms. The campus offers valuable resources for the community, including fine arts and cultural programs, consulting for public and private organizations, workshops, and special events.

The campus is located in northwest Phoenix between 43rd and 51st Avenues on West Thunderbird Road, easily accessed from Interstate 17 and Loop 101.

For more information, see "Fletcher Library," page 28, and "West Campus," page 685. For complete information and course listings, see the *West Campus Catalog*.

**Downtown Center at ASU.** The Downtown Center at ASU is located in central Phoenix at 502 E. Monroe. The center offers a variety of daytime and evening courses and degree programs of interest to employees in private businesses and government agencies and to individuals seeking personal growth and enrichment. These offerings are scheduled at a variety of convenient times and offered through various modes of delivery. Professional continuing education, certificate programs, and lecture series are also available. Access to ASU library information and resources, ASU computing resources, and the Internet is available through the center's computer lab.

## ASU Campus Locations



**ASU Research Park.** The mission of the ASU Research Park is to enhance Arizona's high-value research-based economic development and to build the university's capacity to educate and advance knowledge. To this end, the Research Park serves to attract new corporate and regional headquarters and research and development firms to Arizona—headquarters and firms that broaden the base for potential research, interact with graduate students, consult with university faculty, cosponsor seminars on research topics, and provide employment opportunities for ASU graduates.

The Research Park has numerous major tenants, including ASML, Avnet Technology Solutions, Bright Horizons Family Solutions, Edward Jones, Iridium Satellite, the ASU Macro Technology Works, Philips Semiconductors, and many others. The Research Park contains more than 1.6 million square feet of developed space on 324 acres.

For more information, access the Web site at [researchpark.asu.edu](http://researchpark.asu.edu).

**Camp Tontozona.** Located in the famed Mogollon Rim country near Kohl's Ranch, northeast of Payson, this continuing education facility serves the needs of academic departments conducting teaching and research in mountain terrain. The camp is also available to faculty, staff, graduate students, and alumni for family use. For more information, call 480/965-6851.

**Deer Valley Rock Art Center.** Deer Valley Rock Art Center, located two miles west of the Black Canyon Freeway on

Deer Valley Road, is operated by the ASU Department of Anthropology in consultation with the Hopi, Yavapai, and Gila River Indian tribes. It includes more than 1,500 petroglyphs that cover the eastern slope of Hedgpeth Hills. For more information, call 623/582-8007.

**The Arboretum.** The Arboretum at Arizona State University is the entire 722-acre Tempe campus. The Arboretum is home to a flourishing oasis of plants from around the world. This virtual outdoor classroom includes more than 300 species of trees and other woody ornamental and herbaceous plants from diverse geographic regions as well as the Sonoran Desert. The Arboretum contains one of the best collections of palms and conifers in the desert Southwest and a growing collection of native Southwestern plants. The Arboretum's date palm collection has received international recognition by the American Association of Botanical Gardens and Arboreta North American Plant Collection Consortium.

The Arboretum's collection began with Arthur J. Matthews. By the time Matthews' 30-year presidency was finished, nearly 1,500 trees of 57 species and more than 5,700 feet of hedges were planted. One of his most enduring landscape projects was the planting of Mexican Fan Palms along Palm Walk in 1916, which extends from University Drive south to the Student Recreation Complex. Today the Arboretum has expanded its collection to include nearly 4,000 trees of 164 species/varieties.



## GENERAL INFORMATION

The Arboretum is open to the public free of charge 365 days a year from dawn to dusk. Walking tours of the various collections and points of interest are designated by signage denoting those areas. Many of the plants in the collection throughout campus are marked with identification plaques.

**U.S. Passport Acceptance Office.** Located in the International Programs Office, TMPCT 198, this office serves the public Monday through Friday from 9 A.M. to 4 P.M. For more information, call 480/965-0877, or access the Department of State Web site at [travel.state.gov](http://travel.state.gov).

## UNIVERSITY LIBRARIES AND COLLECTIONS

### Tempe Campus Libraries

The collections of the university's libraries comprise more than 3.9 million volumes, approximately 7.5 million microform units, and more than 34,000 periodical and serial subscriptions. Computer access to commercially and locally produced databases and the ability to borrow research materials from other libraries enhance local resources. ASU is a member of the Association of Research Libraries and the Center for Research Libraries.

For telephone numbers, see "Libraries," page 609. For more information, access the Web site at [www.asu.edu/lib](http://www.asu.edu/lib).

**Charles Trumbull Hayden Library.** The Charles Trumbull Hayden Library, designed by Weaver and Drover in 1966, houses the largest multidisciplinary collection at ASU. In addition to the open stack areas, separate collections and service areas include Access for Disability Accommodations; Circulation; Periodicals/Videos/Microforms; Government Documents Services; Interlibrary Loan and Document Delivery Services; Library Information, Systems, and Technology (L.I.S.T.); Reference; Reserve; and Archives and Manuscripts, which includes Special Collections, the Arizona Collection, the Chicano Research Collection, the Benedict Visual Literacy Collection, the Child Drama Collection, and the Labriola National American Indian Data Center. Archives and Manuscripts holds the papers of several major Arizona political figures, including Senator Carl Hayden, with historic materials about Arizona, Chicano, and Indian affairs.

Other special collections include materials by and about William S. Burroughs, the Press of Thomas Bird Mosher, and the Patten Herbal Collection. For more information, access the Web site at [www.asu.edu/lib/hayden](http://www.asu.edu/lib/hayden).

### Architecture and Environmental Design Library.

Located on the first floor of the College of Architecture and Environmental Design/North building, this library's main collection focuses on architecture, design, graphic design, interior design, landscape architecture, and planning. The library's Special Collections and Archives, Architectural Drawings Collection, and Materials Resource Center provide additional opportunities for specialized research. For more information, access the Web site at [www.asu.edu/lib/arch](http://www.asu.edu/lib/arch).

**Music Library.** A large collection of music scores, recordings, books, music reference materials, and listening facilities for individuals and groups is located on the third floor

of the Music Building, West Wing. For more information, access the Web site at [www.asu.edu/lib/music](http://www.asu.edu/lib/music).

**Daniel E. Noble Science and Engineering Library.** The Daniel E. Noble Science and Engineering Library houses the Map Collection; and books, journals, and microforms in the sciences, engineering, and nursing. For more information, access the Web site at [www.asu.edu/lib/noble](http://www.asu.edu/lib/noble).

### College of Law Library

The John J. Ross-William C. Blakley Law Library is located on McAllister Avenue. See "Law Building and Law Library," page 323, for more information.

### Fletcher Library

The holdings of the Fletcher Library at West campus include more than 331,000 volumes, 9,600 videos, and 15,000 slides. For more information and to take a virtual tour of the library, access the Web site at [library.west.asu.edu](http://library.west.asu.edu).

## University Collections

**Arizona Historical Foundation.** Under a cooperative agreement with ASU, the Arizona Historical Foundation houses a library of several thousand volumes, manuscript collections, maps, and photographs, and a large collection of audiovisual materials. Housed in the Charles Trumbull Hayden Library, the collection's focus is on the history of Arizona and the Southwest. For more information, access the Web site at [www.ahfweb.org](http://www.ahfweb.org).

**University Archives.** ASU Libraries offers eight archival repositories and collections of special published materials: Arizona Collection, University Archives, Special Collections, Child Drama Collection, Benedict Visual Literacy Collection, Labriola National American Data Center, Chicano Research Collection and the Archives and Special Collections of the Architecture and Environmental Design Library. All of these repositories preserve and make accessible manuscript and archival collections, photographs, videotapes, books, periodicals, and other materials of rarity or special significance. ASU also serves as the host for the Arizona Historical Foundation, a nonprofit organization that also offers fine archival collections and services. Thousands of archival materials have been digitized and are available through the Web sites associated with each repository. Reference assistance and traditional or digital duplication services are offered at four reference service points, and some materials are made available through on-campus, online, and traveling exhibits. The Luhrs Reading Room offers evening and weekend service hours during the fall and spring semesters.

## PERFORMING AND FINE ARTS FACILITIES

**ASU Art Museum.** The ASU Art Museum serves students and scholars within and beyond the university and as a cultural resource for the Phoenix metropolitan area. The museum serves the global public through traveling exhibitions, publications that contextualize art in the larger issues of society, and its Web site.

Exhibitions, education programs, and publications are interdisciplinary and designed to engage viewers with art



that is relevant to their lives. New technologies in the content of art and in the approaches to reaching new audiences are eagerly and openly adopted.

Collections and exhibitions focus on contemporary art, particularly new media and new methods of presentation; art by Latin American artists; art from the Southwest; prints, both historic and contemporary; and crafts, emphasizing ceramics. In 2002, the Ceramics Research Center was opened, presenting exhibitions and giving access to research in ceramics. The museum was founded by a gift of historic American paintings, which are on continuous display, including works by Gilbert Stuart, Albert Pinkham Ryder, Winslow Homer, Georgia O'Keeffe, and Romare Bearden. The contemporary art holdings include works by Nam June Paik, Lorna Simpson, Vernon Fisher, Sue Coe, and Enrique Chagoya. Ceramics, with a focus in 20th-century examples, include Peter Voulkos, Ken Price, Lucie Rie, and Robert Arneson. Exhibitions and collections are housed in galleries and study rooms within the international award-winning Nelson Fine Arts Center.

Educational programs include artist residencies and dialogs with classes, a student docent program, internships, research assistantships, lectures and symposia, in-gallery materials, community video projects with children, and school and public tours. For information on upcoming exhibitions and programs, call 480/965-2787.

**Computing Commons Gallery.** Located on the ground floor of ASU's high-traffic, centrally located Computing Commons, the gallery extends the arts to a diverse community. This Institute for Studies in the Arts' (ISA) exhibition space has highly adaptable power and lighting options and more than 30 Ethernet connections to facilitate work with a focus on art and technology.

**Dance Multimedia Learning Center.** The Department of Dance Multimedia Learning Center is a facility designed to promote and encourage the use of media and computer technology in dance education and performance at ASU.

**Dance Studio Theatre.** The Dance Studio Theatre is a 300-seat performance space that is the mainstage performance site for the 12 formal and informal concerts produced annually by the Department of Dance. The theatre is designed with both interactive and telematic capabilities. The facility uses video-based motion sensing and enables dancers to interact with sound, lighting, images, and video in performance. High-speed Internet connectivity enables this space to connect with other telematic spaces for dual, multisite, and Web performances.

**Digital Arts Ranch.** The Institute for Studies in the Arts' (ISA) Digital Arts Ranch includes a black box theatre. The theatre features a matrix of video, audio and movement sensors, controllable projection screens, surround sound capable of Dolby 5.1 and DTS reproduction, shops for design and fabrication using a variety of materials, including wood, aluminum, brass, steel and plastic, and a CAD unit. The theatre space serves as the ISA's principal venue for arts and technology performance events.

**Galleria.** The Galleria features work by ASU faculty, staff, and local artists. Exhibits rotate monthly. Located in down-

town Phoenix in the Downtown Center at ASU, the Galleria participates in the monthly and annual art tours—First Friday and Art Detour—sponsored by a local arts group, ArtLink, Inc. For information on exhibitions, call 480/965-3046.

**Gallery of Design.** Housed in the College of Architecture and Environmental Design, the Gallery of Design is used to display student work, semester end final critiques, shows exhibiting faculty work, an annual alumni show, and special exhibits. Exhibits tend to focus on architecture, design, and planning and landscape design. It is open Monday through Friday from 8 A.M. to 5 P.M., except when the university is closed.

**Paul V. Galvin Playhouse.** Built to stage the largest productions of the ASU Theatre, the Paul V. Galvin Playhouse is a 496-seat proscenium-stage theatre set at the east end of the Nelson Fine Arts Center. The Department of Theatre's annual season of 12 to 15 plays also includes productions in the Lyceum and Prism theatres and the Nelson Fine Arts Center Studios.

**Grady Gammage Memorial Auditorium.** A versatile center for the performing arts designed by Frank Lloyd Wright and named for the late ASU President Grady Gammage, Grady Gammage Memorial Auditorium seats 3,000 and has won wide acclaim for its design and acoustics. In addition to the great hall and related facilities—including the Aeolian-Skinner organ contributed by Hugh W. and Barbara V. Long—the building contains classrooms and workshops for the Katherine K. Herberger College of Fine Arts.

**The Intelligent Stage.** The Intelligent Stage is a research environment and performance space at the Institute for Studies in the Arts (ISA). It is dedicated to the expansion of studies in interactive performance technologies. Current research includes 3-D motion capturing and 2-D sensing technologies, body sensors for real-time control of digital media, and multisite performances through the use of shared data and streaming digital media. The Intelligent Stage serves as the Interdisciplinary Research Environment for Motion Analysis, which includes faculty from 12 departments across campus.

**Katzin Concert Hall.** Located in the new music building expansion, the Katzin Concert Hall seats 350 people. Primarily used for solo and chamber music recitals, the hall houses a nine-foot Hamburg concert Steinway piano. The acoustics are enhanced by the maple-paneled stage and the multifaceted walls and ceiling.

**Louise Lincoln Kerr Cultural Center.** Located in Scottsdale, the Louise Lincoln Kerr Cultural Center offers cultural events, especially in the performing arts, to the community.

**Lyceum Theatre.** A 164-seat proscenium theatre, the Lyceum Theatre is a venue for faculty productions and a laboratory for the work of student playwrights, directors, and actors in the Department of Theatre.

**J. Russell and Bonita Nelson Fine Arts Center.** Designed by Albuquerque architect Antoine Predock, the J. Russell and Bonita Nelson Fine Arts Center is a spectacular,

## GENERAL INFORMATION

119,000-square-foot, village-like aggregate of buildings that includes five galleries of the ASU Art Museum, the Paul V. Galvin Playhouse, the University Dance Laboratory, seven specialized theatre and dance studios, a video studio, and a variety of scenic outdoor features, including courtyards, fountains, pools, and a 50-by-100-foot projection wall designed for outdoor video.

**Northlight Gallery.** The Northlight Gallery is dedicated to museum-quality exhibitions of historical and contemporary photography. Located in Matthews Hall, it is open during the academic year.

**Organ Hall.** Located in the Music Building, the Organ Hall houses the Fritts Organ. This tracker-action pipe organ is designed to capture the qualities of baroque European organs. The hall is designed to complement the organ with a barrel-vaulted ceiling and wooden benches to seat 166 persons.

**Prism Theatre.** The Prism Theatre is an alternative black-box space devoted to student productions.

**Recital Hall.** Located on the fifth floor of the Music Building, the Recital Hall is an intimate 125-seat facility that opens onto a rooftop courtyard.

**Evelyn K. Smith Music Theatre.** As part of the music complex, the Evelyn K. Smith Music Theatre, modeled after the Wagnerian Theatre in Bayreuth, Germany, rises five stories and seats an audience of 500. This theatre is the home of many operatic and musical productions.

**Step Gallery.** Located in the Tempe Center, the Step Gallery is dedicated to exhibitions by undergraduate students.

**Sundome Center for the Performing Arts.** As America's largest single-level theatre, the Sundome Center for the Performing Arts in Sun City West has 7,169 seats. The theatre is equipped with sophisticated, state-of-the-art lighting systems, and a single-span roof affords each seat a clear view. As one of Arizona's premier entertainment venues, the Sundome provides an array of top entertainment from Las Vegas-style concerts to classical ballets to celebrity lectures.

**Television Station KAET.** KAET, Channel 8, is the university's PBS station. Studios of the award-winning station are located in the Stauffer Communication Arts Building. To operate 24 hours a day, KAET employs more than 50 ASU students and interns. To learn more about KAET-TV, access its Web site at [www.kaet.asu.edu](http://www.kaet.asu.edu), or call 480/965-8888.

**University Dance Laboratory.** A flexible performance space within the Nelson Fine Arts Center, the University Dance Laboratory is designed specifically for experimental dance productions. Along with the Dance Studio Theatre in the Physical Education Building East, the University Dance Laboratory is used by the Department of Dance for experimental performances.

**Harry Wood Gallery.** Housed in the Art Building (ART 120), the Harry Wood Gallery provides temporary exhibitions of the visual arts during the academic year. Works by undergraduate and graduate students, as well as the general public, are showcased.

**Gallery 100.** The art gallery is located opposite the Tempe campus Bookstore in ECA 100. The exhibition space features art work in a variety of media created by graduating seniors in the School of Art.

## COMPUTING FACILITIES AND SERVICES

Computers are fundamental tools for learning, instruction, and research in every college and department at ASU. The Information Technology (IT) department provides a variety of computing equipment and services available for use by students, faculty, and staff. IT also provides a wide variety of applications, including those required for development, research, and other learning needs. University-wide productivity software and knowledge-sharing resources are accessible through a high-speed campus network and from off campus via the Internet.

A wide range of university information is available online at [www.asu.edu](http://www.asu.edu), the official ASU Web site. Prospective and current students can find details regarding undergraduate and graduate degree programs, financial assistance, housing, and student activities. The ASU Web site is also the gateway to many online services, including

1. finding and registering for classes;
2. viewing online grade reports;
3. checking e-mail, accessing courses online, utilizing Web-based university services, and reading customizable content via myASU ([my.asu.edu](http://my.asu.edu));
4. creating personal and course Web pages;
5. viewing campus event calendars;
6. searching the student-faculty-staff directory;
7. browsing general and graduate catalogs; and
8. obtaining information about ASU athletics.

IT provides several service centers, described below, for the ASU academic community.

**Computing Commons.** The Computing Commons building (CPCOM) provides a "technology hub" that draws together students, faculty, and staff from all disciplines on campus in an environment conducive to maximum creative interaction. The building and its facilities have drawn national recognition and acclaim as a model for the support of instruction and research in a technology-based environment. The Computing Commons houses a 254-workstation computing site, seven computer classrooms, one instructor mediated classroom, two Classroom Support Centers, the Customer Assistance Center, the ASU Computer Store, and the Computing Commons Gallery which is described under Performing and Fine Arts Facilities (see "Computing Commons Gallery," page 29).

**Classroom Support.** Classroom Support provides the campus community with a variety of tools and services to help faculty, staff, and students integrate technology into the educational process at ASU. Support services for university classrooms include technical assistance, instructor training, equipment installation and maintenance; multimedia equipment loans for classroom instruction and faculty-sponsored student projects; equipment and classroom demonstrations of new and current technologies; and hands-on orientation.

For more information, access the Web site at [www.asu.edu/classroomsupport](http://www.asu.edu/classroomsupport).

**Computing Sites.** In addition to the Computing Commons Atrium, there are four additional Information Technology computing sites located on the Tempe campus, available for ASU faculty, staff, and students with an ASURITE UserID. Site configurations and hours of operation vary; current information is available on the Web at [www.asu.edu/computingsites](http://www.asu.edu/computingsites).

**Computer Accounts.** Computer Accounts, located on the second floor of the Computing Commons in room 202, assists users with account access issues (including lost passwords), disk space quotas, accounts for non-ASURITE services (including mainframe computer access), and other account-related services. Most computing services are accessible through the standard ASURITE UserID and password, available online at [www.asu.edu/asurite](http://www.asu.edu/asurite). Additional information about Computer Accounts is available on the Web at [www.asu.edu/computeraccounts](http://www.asu.edu/computeraccounts).

**Customer Assistance Center.** The Customer Assistance Center, located on the second floor of the Computing Commons in room 202, offers a library of reference manuals and other information concerning computing systems and software. Self-paced training is available for various software applications running under the Windows or Unix operating systems. The Customer Assistance Center also distributes some site-licensed software, including computer security software. "Print on demand" help documents are available on the Web at [www.asu.edu/quicklook](http://www.asu.edu/quicklook). Additional information about the Customer Assistance Center is available on the Web at [www.asu.edu/cacenter](http://www.asu.edu/cacenter).

**Digital Media and Instructional Technologies.** Digital Media and Instructional Technologies (DMIT) is a development center for the effective use of technology in the design and delivery of instruction. Staffed with faculty, researchers, and students skilled in the areas of system design, graphics, interactive software, Web-based instructional design and delivery, and digital video production, this innovation-driven group enables faculty to maximize the impact of their instruction through the use of technology. From this perspective, DMIT fosters technological innovation by serving as a research and development unit, a production group, and a training facility.

DMIT collaborates with faculty in the coordination of cross-disciplinary research and production projects relating to the integration of technology with education. Through partnerships with ASU faculty and researchers, other educational institutions, as well as public and private community entities, grant-writing teams are assembled to leverage support not otherwise available to a single academic unit or faculty member. Central to effective support services is the establishment of a partnership among the various support units within the university. DMIT coordinates the efforts of these groups—which include the College of Extended Education, University Libraries, the Disability Resource Center for Academic Access and Achievement, and the Office for Research and Sponsored Projects Administration—to provide faculty with a wide array of instruction support services.

DMIT offers consultation and workshops tailored toward enhancing the instructional use of technology by the university teaching community. Sessions range from an introduction to technology in education through advanced and customized approaches for instructors in specific programs.

For more information about DMIT, access the Web site at [dmit.asu.edu](http://dmit.asu.edu).

**DMIT Instruction Support Lab.** The Instruction Support (IS) Lab provides an environment in which faculty may seek and receive one-on-one, guided, or independent support for course development and delivery. Expert staff work closely with faculty to refine and develop their skills and confidence in the design and delivery of instruction through a variety of technology-supported means, both synchronous and asynchronous. Located in CPCOM 213, the IS Lab provides faculty, university professionals, and graduate students with a unique opportunity to integrate technology with instruction. The IS Lab sponsors workshops and demonstrations and serves as a dynamic clearinghouse of information and referrals for effective integration of technology with education. For more information about IS Lab resources, support, and workshops, access the Web site at [dmit.asu.edu/islab](http://dmit.asu.edu/islab).



A Biodesign Institute researcher performs microchip analysis.

Tim Trumble photo

## GENERAL INFORMATION

**Downtown Center at ASU Computer Labs.** The Downtown Center at ASU offers two state-of-the-art computer labs. These facilities feature Pentium IV-class computers with the latest versions of software, high-speed laser printers, a color flatbed scanner, and a ceiling-mounted video projection system. The labs are located in central Phoenix. The center is a unique educational, applied-research, and community-service facility designed to address the multifaceted urban opportunities of the central Phoenix community. For more information, call 480/965-3046, or access the Web site at [www.asu.edu/xed/computerlab](http://www.asu.edu/xed/computerlab).

**Help Desk/Consulting.** The IT Help Desk provides ASU students, faculty, and staff with centralized systems information and first-level assistance in resolving computing problems. The IT Help Desk assists with AFS filespace and permissions for Web sites; communication, e-mail, and virus protection software; file recovery from floppy disks; and computing and equipment problem referral. Services are available by telephone at 480/965-6500, and by walk-in at the Customer Assistance Center, CPCOM 202. For more information, access the Web site at [www.asu.edu/helpdesk](http://www.asu.edu/helpdesk).

## ALUMNI ASSOCIATION

Founded in 1894, the Alumni Association is a volunteer-led organization committed to serve and unite alumni for the purpose of advancing the interests of ASU and its alumni. The association, located in MAIN 200, provides a variety of services for ASU alumni, as well as a series of events scheduled around the country.

With more than 250,000 alumni living in the United States and throughout the world, the association plays an important role as the university's primary support organization. Comprising more than 42 groups, the campus, college, club, and chapter organizations (4Cs) of the association provide opportunities for all alumni to stay involved with the part of ASU that interests them most.

Members of the Board of Directors are elected each spring. For more information about the association or its board of directors, call 1-800-ALUMNUS or 480/965-ALUM (2586), or access the Web site at [www.asu.edu/alumni](http://www.asu.edu/alumni).

## PROGRAM ASSESSMENT AND THE OFFICE OF UNIVERSITY EVALUATION

The Office of University Evaluation is a research and service facility that focuses on assessing and improving the effectiveness of the university's academic and support programs. The office conducts, coordinates, and manages research designed to measure the degree to which courses, curricula, and academic programs impart knowledge and skills to students, as well as the quality of support provided to students. The results of these studies, or assessments, are used to enhance both the support provided to students and the intellectual integrity of an ASU education.

In order for the university to assess and improve its programs, periodic measurement of student experiences, perceptions, and intellectual growth must be obtained. When asked by the university, students are expected to participate in one or more evaluative procedures, such as the ASU Report Card. These evaluative procedures are designed to

assess the efficacy of the total university experience, including teaching and learning and support programs and are not used in individual grading. The information obtained is one of the means used to improve the quality of the educational experience for this and future generations of ASU students.

For more information, call the office at 480/965-9291, or contact them via e-mail at [oue@asu.edu](mailto:oue@asu.edu). The Office of University Evaluation's Web site is [www.asu.edu/oue](http://www.asu.edu/oue).

## LEARNING AND TEACHING EXCELLENCE

The Center for Learning and Teaching Excellence is dedicated to enhancing teaching and learning possibilities at ASU. To support this mission, the center provides a variety of training, support, and professional development programs for faculty, academic professionals, graduate students who have teaching responsibilities, and academic departments throughout the university. The center's resources and services specifically focus on advancing improvements in student learning, especially the manner in which teachers promote and foster that learning.

Some of the center's goals are

1. assisting faculty, programs, and departments to assess and develop instructional approaches;
2. providing workshops designed to enhance specific instructional practices for all who teach;
3. serving as a clearinghouse of information about activities, events, resources, and projects that may enhance teaching and learning;
4. developing synergistic relationships with existing campus units;
5. providing instructional assistance to new faculty on campus;
6. encouraging reflective use of instructional technologies; and
7. collaborating with other campus units to secure grant moneys for new course development, exploration of innovative teaching methods, and/or research in effective instruction.

For more information, call 480/965-9401.

**Learning and Teaching Excellence Courses.** Sections of LTE 598 are offered in the annual Summer Institute on College Teaching and Winter Institute on College Teaching, designed for faculty and teaching assistants who wish to develop diverse strategies for enhancing their students' learning.

## LEARNING AND TEACHING EXCELLENCE (LTE)

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## RESEARCH CENTERS, INSTITUTES, AND LABORATORIES

See "Research Centers," page 33.

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# Research Centers

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<b>College of Architecture and Environmental Design</b> .....	<b>33</b>
<b>W. P. Carey School of Business</b> .....	<b>34</b>
<b>East Campus</b> .....	<b>35</b>
<b>College of Education</b> .....	<b>36</b>
<b>Ira A. Fulton School of Engineering</b> .....	<b>37</b>
<b>The Katherine K. Herberger College of Fine Arts</b> .....	<b>37</b>
<b>College of Law</b> .....	<b>37</b>
<b>College of Liberal Arts and Sciences</b> .....	<b>37</b>
<b>College of Public Programs</b> .....	<b>42</b>
<b>Vice President for Research and Economic Affairs</b> .....	<b>43</b>

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Research centers, institutes, and laboratories serve the university's mission in research. They are overseen by eight of the colleges, the President's Office, the Office of the Vice President for Research and Economic Affairs, and the East campus provost.

## **Center for Research on Education in Science, Mathematics, Engineering, and Technology**

The Center for Research on Education in Science, Mathematics, Engineering, and Technology (CRESMET)—an alliance of the ASU College of Education, the Ira A. Fulton School of Engineering, and the College of Liberal Arts and Sciences—was initiated in 1999, growing out of what was previously the Center for Innovation in Engineering Education. The mission of the center is to bring together individuals, programs, and organizations interested in improving K–20 science, mathematics, engineering, and technology education to research, develop, and assess educational theories, curricula, courses, and administrative policies that impact science, mathematics, engineering, and technology education. The center also encourages and supports wide-scale sharing and implementation of effective approaches to producing a more scientifically and technologically literate populace and more capable science, mathematics, engineering, and technology majors.

**Research.** CRESMET pursues research and development that demonstrates coherent, consistent, and conceptually powerful mathematics, science, engineering, and technology education from kindergarten through college (K–20).

**Partnering.** CRESMET supports collaborations across the traditional boundaries of university, community, business, and local education agencies.

**Sharing.** CRESMET establishes communication avenues for intellectual and material products proven effective in supporting powerful learning in science, mathematics, engineering, and technology fields.

For more information, visit CRESMET in ECG 303, call 480/727-8884, or access the CRESMET Web site at [www.eas.asu.edu/~CRESMET](http://www.eas.asu.edu/~CRESMET).

## **Institute for Studies in the Arts**

The Institute for Studies in the Arts (ISA) is an interdisciplinary research center within the Katherine K. Herberger College of Fine Arts (HCFA) at ASU. Its infrastructure has been developed especially to facilitate interdisciplinary digital arts. In 2003, the ISA initiated the development of the Arts, Media, and Engineering Program (AME), a joint initiative of the Herberger College of Fine Arts and the Ira A. Fulton School of Engineering. The goal of AME is transdisciplinary research and education in the integrated development of experiential media. To achieve this complex goal, AME combines knowledge and resources from 14 disciplines across ASU and has established a shared curriculum among nine departments.

ISA facilities include Digital Arts Ranch—a black-box theater with a matrix of video, audio, and movement sensors; controllable projection screens; surround sound capabilities; shops for design and fabrication; a CAD unit; and the Intelligent Stage—a research environment and performance space dedicated to the expansion of studies in interactive performance technologies, including 3-D motion capturing and 2-D sensing technologies; a state-of-the-art Audio Lab and Digital Imaging Lab; the Technology Development Studio—dedicated to the development of software and hardware for experiential media and arts interfaces—and the Computing Commons Gallery, a highly adaptable exhibition space for works with a focus on art and technology.

For more information, call 480/965-9438, or access the Web sites at [www.isa.asu.edu](http://www.isa.asu.edu) or [ame.asu.edu](http://ame.asu.edu).

## **COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN**

### **Herberger Center for Design Research**

The Herberger Center for Design Research (HCDR) has recently changed in name and mission. Previously known as the Herberger Center for Design Excellence, the center's mission will focus on promoting and funding design research. To fulfill this mission, HCDR will support new enterprises, including InnovationSpace, an interdisciplinary laboratory where students and faculty form partnerships with inventors, researchers, and businesses to create consumer-driven product concepts that improve society and the environment. InnovationSpace is a partnership among the College of Architecture and Environmental Design, the Ira A. Fulton School of Engineering, and the W. P. Carey

## RESEARCH CENTERS

School of Business. For more information, call 480/965-6367, or access the Web site at [innovationspace.asu.edu](http://innovationspace.asu.edu). HCDR will also seek new partnerships to share resources and knowledge within the ASU community, with local businesses and educational institutions, and nationally and internationally with other universities and businesses.

HCDR also supports the Joint Urban Design Program (JUDP), based at the ASU downtown Phoenix campus. The JUDP is a community outreach program that facilitates interaction among college faculty, students, and the broader community and promotes design as a way to further dialogue and to address urban issues. The JUDP conducts intensive workshops (community-based charrettes) that help neighborhoods, groups, and other city stakeholders focus on and respond to critical needs. For more information, call the JUDP at 480/727-5146, or access the Web site at [www.asu.edu/caed](http://www.asu.edu/caed).

For more information about College of Architecture and Environmental Design research centers, call 480/965-6693, or access the Web site at [www.asu.edu/caed](http://www.asu.edu/caed).

### W. P. CAREY SCHOOL OF BUSINESS

#### Bank One Economic Outlook Center

The Bank One Economic Outlook Center (EOC), established in 1985, specializes in economic forecasts for Arizona and the Western states. The center publishes the *Bank One Arizona Blue Chip Economic Forecast* (monthly), *Greater Phoenix Blue Chip Economic Forecast* (quarterly), *Western Blue Chip Economic Forecast* (10 issues per year), and *Blue Chip Job Growth Update* (monthly), an update of current job growth in the United States. The center also publishes *Mexico Consensus Economic Forecast* (quarterly), which forecasts and provides historical data on the Mexican economy.

For more information, call 480/965-5543, access the EOC Web site at [www.wpcarey.asu.edu/seid/eoc](http://www.wpcarey.asu.edu/seid/eoc), or write

BANK ONE ECONOMIC OUTLOOK CENTER  
PO BOX 874011  
TEMPE AZ 85287-4011

#### Center for the Advancement of Small Business

The Center for the Advancement of Small Business (CASB) is a 21st-century leader in business education, practice, and research providing high-quality, relevant programs, and information services focused on small business since 1994. The center enables students and existing small and medium-size businesses to participate, contribute, and compete in the global economy.

The center provides students from all disciplines with programs and resources that prepare them for leadership positions in small and medium-size businesses, and aids small and medium-size businesses in the continuous improvement of human resources and business practices. CASB also engages in applied research on entrepreneurship and the emerging changes and trends in small business.

For more information, visit CASB in BAC 101, call 480/965-3962, access the CASB Web site at [www.wpcarey.asu.edu/seid/casb](http://www.wpcarey.asu.edu/seid/casb), or write

CENTER FOR THE ADVANCEMENT  
OF SMALL BUSINESS  
PO BOX 874406  
TEMPE AZ 85287-4406

#### Center for Advancing Business Through Information Technology

The Center for Advancing Business through Information Technology (CABIT) focuses on research and educational innovations in technology and business that have been accomplished since 2002. CABIT explores how technological innovations are transforming business operations and provides a forum for interactions between the academic and the practitioner communities. The aim is to leverage the internationally recognized expertise of the ASU faculty, to be in active partnership with industry, and to address current issues related to the technological impact on business.

One of the primary goals of CABIT is to encourage interdisciplinary research within the School of Business. Business faculty members then share their findings with colleagues throughout ASU who have a common interest regarding the impact of technology on business.

The creation of CABIT is an outgrowth of a decade of significant investment in the development of innovative business management programs and the recruitment of technology-savvy faculty. Similarly, the dean's office has worked with School of Business faculty to successfully advance the recommendations of the E-Business Task Force by implementing significant changes in the M.B.A and undergraduate programs. For more information, call 480/965-2280, access the CABIT Web site at [www.wpcarey.asu.edu/seid/cabit](http://www.wpcarey.asu.edu/seid/cabit), or write

CENTER FOR ADVANCING BUSINESS THROUGH  
INFORMATION TECHNOLOGY  
PO BOX 873606  
TEMPE AZ 85287-3606

#### CAPS Research

CAPS: Center for Strategic Supply Research was established in November 1986 by a national affiliation agreement between the ASU W. P. Carey School of Business and the Institute for Supply Management. It is the first and only program of its kind in the nation and is located in the ASU Research Park, about eight miles south of the Tempe campus. CAPS Research conducts in-depth research into the problems facing the purchasing profession today and, through its studies, seeks to improve purchasing effectiveness and efficiency and the overall state of purchasing readiness.

For more information, call 480/752-2277, access the Web site at [www.capsresearch.org](http://www.capsresearch.org), or write

CAPS RESEARCH  
ASU RESEARCH PARK  
2055 E CENTENNIAL CIRCLE  
PO BOX 22160  
TEMPE AZ 85285-2160

### Center for Business Research

The Center for Business Research (CBR) has been a consistent source of information on the Arizona and metropolitan Phoenix economies since 1951. Both the business community and the public have access to the economic indicators produced by the ongoing projects of the center, including quarterly net migration estimates for Arizona and Maricopa County. CBR also conducts projects under the sponsorship of private and public agencies. Recent examples include the economic impact of the Fiesta Bowl, a study of seasonal migration to Arizona, and an analysis of the Arizona Lottery. A monthly publication of the center, *AZB/Arizona Business*, plays a major role in disseminating to the public the economic information compiled by the research centers of the Seidman Institute. CBR staff is available to respond to inquiries and to provide available data.

For more information, call 480/965-3961, access the CBR Web site at [www.wpcarey.asu.edu/seid/cbr](http://www.wpcarey.asu.edu/seid/cbr), or write

CENTER FOR BUSINESS RESEARCH  
PO BOX 874011  
TEMPE AZ 85287-4011

### Center for Services Leadership

Since 1985 the Center for Services Leadership (CSL) has been a leading university-based hub devoted to the study of services marketing and management. The CSL addresses how any company can improve internal service processes and use service and customer satisfaction as a competitive advantage. The center encourages firms to share the best ideas and practices for adaptation across industries. Though grounded in marketing, the center's work is cross-functional, integrating concepts and techniques from marketing, operations, human resources, and management.

The center's areas of expertise include customer retention and loyalty; service quality; service delivery; professional services such as healthcare, accounting, and consulting; customer satisfaction; services strategy; service culture; and service recovery. A leader in the business and academic communities, the center's work advances the knowledge base in the field and provides applicable frameworks, concepts, and tools.

The center offers its partner firms topflight executive education in services through the annual "Activating Your Firm's Service Culture" symposium, the annual "Services Marketing and Management" institute program, and the annual "Information Technology Services Marketing" course and provides customized executive education programs and research projects tailored to and conducted for charter member firms.

The center also actively supports the W. P. Carey School of Business MBA program that offers a specialization in Services Marketing and Management. This specialization infuses strong company-based experience and encourages summer internships.

For more information, visit the CSL in BAC 440, call 480/965-6201, or write

CENTER FOR SERVICES LEADERSHIP  
PO BOX 874106  
TEMPE AZ 85287-4106

### L. William Seidman Research Institute

The mission of the L. William Seidman Research Institute is to encourage and support applied business research by serving as a public access point to the W. P. Carey School of Business. Specific goals include transferring new knowledge to the public; supporting faculty and student research; encouraging the development of educational programs grounded in business research; and conducting high-quality, applied business research.

The institute encourages research activity by providing research support services to the faculty, staff, and students of the college. These services include facilitating grant preparation and assistance in grant administration. The institute's research centers act as the focal point for involving faculty and students in applied research on important issues identified by the business community.

The institute also serves an important role in the broader educational mission of the W. P. Carey School of Business by disseminating the findings of research conducted by the faculty, students, and research center staff, as well as the results of business research from other sources around the world. This is accomplished through a variety of mechanisms: newsletters and research reports; seminars and conferences; Internet Web pages; media interviews and press releases; and by responding to inquiries from businesses, public officials, and the community. For more information, call 480/965-5362, access the institute's Web site at [www.wpcarey.asu.edu/seid](http://www.wpcarey.asu.edu/seid), or write

L. WILLIAM SEIDMAN RESEARCH INSTITUTE  
PO BOX 874011  
TEMPE AZ 85287-4011

### Institute for Manufacturing Enterprise Systems

See "Institute for Computing and Information Science and Engineering," page 43, for information about this joint venture of the Ira A. Fulton School of Engineering and the W. P. Carey School of Business.

### EAST CAMPUS

#### Arizona Real Estate Center

The Arizona Real Estate Center (AREC), established in 1980, serves a multifunction research and educational role to foster better understanding of the real estate sector of the Arizona economy. Housing, commercial real estate, and construction activity data for Arizona and Maricopa County are collected by the center and are utilized for a variety of ongoing projects, including the calculation of affordability indexes and the computation of housing appreciation figures for the metropolitan Phoenix area.

For more information, call 480/727-1688, access the AREC Web site at [www.east.asu.edu/arec](http://www.east.asu.edu/arec), or write

ARIZONA REAL ESTATE CENTER  
7001 E. WILLIAMS FIELD ROAD  
SUTTON 301C  
MESA AZ 85212

## RESEARCH CENTERS

### **Sustainable Technologies, Agribusiness, and Resources Center**

The focus of the Sustainable Technologies, Agribusiness, and Resources (STAR) Center is to bring together multidisciplinary researchers whose mission is to study sustainable processes and systems, whether natural or human designed, that will be efficient and less consumptive and will promote conservation of the earth. For more information, call 480/727-1249, or access the STAR Center Web site at [www.east.asu.edu/research/star](http://www.east.asu.edu/research/star).

## **COLLEGE OF EDUCATION**

### **Bureau of Educational Research and Services**

The Bureau of Educational Research and Services (BERS) is a liaison unit of the ASU College of Education. BERS is dedicated to fostering and connecting the human and material resources of the college to the needs in the field of education. BERS engages in information dissemination and service about transforming education and the roles of learners and leaders. BERS provides professional development opportunities, seminars for superintendents, round-table discussion groups, conference and meeting planning, consulting services, and executive search services.

For more information, call 480/965-3538, or access the Web site at [bers.asu.edu](http://bers.asu.edu). BERS is located in ED 140.

### **Center for Indian Education**

The Center for Indian Education is an interdisciplinary research and service center established in 1959. It promotes studies in American Indian policy and administration that contribute to scholarship and effective practices in education, professional training, and tribal capacity building. It is structured to foster relations between the university and sovereign tribes and to provide training and technical assistance for community programs. The center publishes the *Journal of American Indian Education* and sponsors workshops and colloquia that bring together scholars and tribal community leaders.

The center provides leadership through a group of American Indian faculty and is organized on the basis of scholarly expertise of the faculty. In addition to College of Education faculty, responsibilities are shared by faculty from the School of Social Work, the School of Justice and Social Inquiry, the College of Liberal Arts and Sciences, and the College of Law. Areas currently studied include administrative leadership, policy analysis, bilingual education, health and welfare policy, justice studies, and program development in professional studies.

For more information, visit the center in ED 402, call 480/965-6292, or access the center's Web site at [coe.asu.edu/cie](http://coe.asu.edu/cie).

### **CRESMET**

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 33.

### **Education Policy Studies Laboratory**

Located within the College of Education, the Education Policy Studies Laboratory (EPSL) conducts and coordinates original research in areas such as student performance stan-

dards, assessment, commercialism in schools, curriculum, and language policy issues. EPSL disseminates its analyses and reports to policy makers, educators, media, and the public. It provides high-quality research through three specialized units—the Commercialism in Education Research Unit, the Education Policy Research Unit, and the Language Policy Research Unit, an initiative—the Arizona Education Policy Initiative; and an online peer-reviewed, academic journal—the Education Policy Analysis Archives.

For more information, visit EDB L1-01, call 480/965-1886, or access the laboratory's Web site at [www.asu.edu/educ/eps1](http://www.asu.edu/educ/eps1).

### **Southwest Center for Education Equity and Language Diversity**

The Southwest Center for Education Equity and Language Diversity conducts, supports, and promotes research, scholarship, and innovative practice in language education designed for minority students in public schools. The center gives priority to scholarship and field-based work relating to educational equity and the systematic usage of heritage languages and cultures. The aim is to integrate these resources into the educational experience of all children and youth.

The center's scope of work is driven by a need to merge several related topics into one articulated conversation: biliteracy; promoting the role of public education to strengthen communities; and enabling binational collaboration among educators. The long-term vision is to help develop a new pedagogy tailored to the needs of the bicultural region the center serves. The integration of these themes shapes the scope of work for the center in the following areas:

1. Within the broad scope of educational policy research, the center focuses on scholarly inquiry that contributes to informed and enlightened discourse on language policy for schools and society, especially on the harmonious coexistence of English, the national language, and Spanish, the second most used language in our society.
2. Life in the American Southwest is bicultural and increasingly binational. In this Pan-American context, bilingualism will gain in importance. Equally important will be the collective ability of residents on both sides of the border to work harmoniously in pursuit of a common destiny that will be ever more intertwined. Schools must help children and youth develop skills and predispositions to face this challenge.
3. Mexico and the United States are becoming more interdependent. In this context, Mexican educators should have opportunities to contribute to improving education for Mexican immigrant children in U.S. schools. To enable this, schools must create pilot projects and an infrastructure for collaboration among institutions and individuals on both sides of the U.S.-Mexico border.

For more information, visit the center in ED 440, call 480/965-7134, or access the center's Web site at [www.asu.edu/educ/sceed](http://www.asu.edu/educ/sceed).



**IRA A. FULTON SCHOOL OF ENGINEERING****Biodesign Institute at Arizona State University**

This institute has a collaborative relationship with the Ira A. Fulton School of Engineering. For more information, see "Biodesign Institute at Arizona State University," page 43.

**Center for Low Power Electronic Research**

The Center for Low Power Electronic Research is a collaborative effort of the University of Arizona and ASU to address fundamental, industry-relevant research problems in the design of ultra-low power microelectronic systems. The center is formed under the State/Industry/University Cooperative Research initiative of the National Science Foundation (NSF). The NSF and the State of Arizona recognize that Arizona has the key ingredients to become a leader in this technology, such as the world's leading companies involved in the manufacture of portable computing and communication systems. The center technical areas of focus include

1. basic materials, alternative materials, and their fabrication;
2. device design optimization;
3. design of digital, analog, and hybrid low power circuits; and
4. power-based physical design for single- and multi-chip VLSI systems.

For more information, visit the center in ENGR 115, call 480/965-8654, or access the Engineering Research Services Web site at [www.asu.edu/~ers](http://www.asu.edu/~ers).

**CRESMET**

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 33.

**Center for Solid State Electronics Research**

The Center for Solid State Electronics Research (CSSER) focuses on research in the areas of epitaxial semiconductor crystal growth, device characterization and modeling, defect behavior in semiconductor material characterization, environmentally benign and other novel processing, fine line lithography, surface analysis, and transport. Major programs address semiconductor device modeling, transport theory, optoelectronics, ferroelectrics, semiconductor processing, microwave devices, and ultra-submicron and nano-structured devices. New thrust areas include molecular electronics and MEMS.

For more information, visit CSSER in ENGR 115, call 480/965-3708, or access the CSSER Web site at [ceaspub.eas.asu.edu/csser](http://ceaspub.eas.asu.edu/csser).

**Institute for Manufacturing Enterprise Systems**

The Institute for Manufacturing Enterprise Systems (IMES) is a joint venture of the W. P. Carey School of Business and the Ira A. Fulton School of Engineering, established to enhance manufacturing research and industrial collaboration at the interface between the two colleges. The institute's mission is to establish ASU as an international leader in the creation and dissemination of new knowledge in the area of global manufacturing for the new economy. It particularly focuses on how manufacturing impacts Ari-

zona. Research thrust areas include virtual manufacturing, enterprise systems, knowledge management, and software in the system solution.

For more information, visit the institute in GWC 402, call 480/965-3709, or access the Engineering Research Services Web site at [www.eas.asu.edu/~ers](http://www.eas.asu.edu/~ers).

**Institute for Studies in the Arts**

The Ira A. Fulton School of Engineering has a collaborative relationship with this institute. For more information, see "Institute for Studies in the Arts," page 33.

**THE KATHERINE K. HERBERGER COLLEGE OF FINE ARTS****Ceramics Research Center**

The Ceramics Research Center was established in 2002 as part of the ASU Art Museum and features selections from the more than 3,000 ceramics works in the collection. Works are shown in open storage, in a gallery with changing exhibitions, and in the Susan Harnly Peterson Ceramics Archive. The center offers opportunities for hands-on study and enjoyment of one of the outstanding ceramics collections in the country. For more information, call 480/727-8170, or access the museum's Web site at [asuartmuseum.asu.edu](http://asuartmuseum.asu.edu).

**Institute for Studies in the Arts**

The Katherine K. Herberger College of Fine Arts has a collaborative relationship with this institute. For more information, see "Institute for Studies in the Arts," page 33.

**COLLEGE OF LAW****Center for the Study of Law, Science, and Technology**

Located in the College of Law, the Center for the Study of Law, Science, and Technology conducts research, edits *Jurimetrics: The Journal of Law, Science and Technology* in cooperation with the American Bar Association Section on Science and Technology, and sponsors seminars, workshops, and conferences. Through these activities, the center seeks to contribute to the formulation and improvement of law and public policy affecting science and technology and to the wise application of science and technology in the legal system. Current areas of research include communications and telecommunications law, computer-related law, forensic science and statistics, legal issues and biotechnology, law and medicine, law and social science, genomics, privacy, intellectual property, and bioethics.

For more information, visit the center in LAW 229A, or call 480/965-6606.

**COLLEGE OF LIBERAL ARTS AND SCIENCES****Arizona Center for Medieval and Renaissance Studies**

The Arizona Center for Medieval and Renaissance Studies (ACMRS) is a research unit serving affiliate scholars from ASU, Northern Arizona University, and the University of Arizona. It represents a variety of disciplines, including history, literature, philosophy, religion, language, music, art, and science. ACMRS enriches academic offerings in

## RESEARCH CENTERS

medieval and renaissance studies by sponsoring one or two visiting professors each year. Graduate research assistantships are also available through the center.

Significant opportunities for the study of the Middle Ages and the Renaissance exist at ASU. Hayden Library has an extensive microfilm collection and many rare books in medieval and renaissance studies. ACMRS also sponsors a lecture series each semester covering a variety of topics.

Other programs include an annual conference, a public symposium, a summer study abroad program at the University of Cambridge (United Kingdom), and student exchange programs with the University of Copenhagen (Denmark) and the University of Kalmar (Sweden).

Since 1996, ACMRS has published *Medieval and Renaissance Texts and Studies*, a major series of editions, translations, and reference works. In collaboration with the University of Massachusetts at Dartmouth and the University of Kansas, ACMRS sponsors and coedits *Mediterranean Studies*, an annual interdisciplinary journal publishing articles on all aspects of the Mediterranean region. ACMRS also sponsors a book series titled *Arizona Studies in the Middle Ages and the Renaissance*, published by Brepols (Belgium).

ACMRS also partners with the Renaissance Society of America and the University of Toronto in *Iter*, a massive, retrospective, online medieval and renaissance bibliography covering all languages and disciplines, and is the official site of the Medieval Academy of America's online data project offering information on medieval centers, programs, committees, and regional associations in North America.

For more information, visit ACMRS in COOR 4429, call 480/965-5900, or access the ACMRS Web site at [www.asu.edu/clas/acmrs](http://www.asu.edu/clas/acmrs).

### Cancer Research Institute

Significant advances in the treatment of human cancer and other serious medical problems depend upon scientists well trained in organic chemistry, biochemistry, and biology. The Cancer Research Institute provides graduate students with the specialized training necessary for research in the discovery and development of effective anticancer drugs. Among various activities, laboratory personnel are pursuing a unique program concerned with isolation, structural identification, and synthesis of naturally occurring anticancer agents from marine animals, plants, and marine microorganisms.

For more information, visit the institute in CRI 209, or call 480/965-3351.

### Center for Asian Studies

The mission of the Center for Asian Studies is to promote and support the study of Asia at ASU, in the Phoenix metropolitan area, and in the greater community through a wide variety of outreach activities, including teacher training, curriculum development, public symposia, film series, and exhibitions.

The program in Southeast Asian Studies is administered as a sister program to the Center for Asian Studies. Founded in 1966, the center today is the focal point of one of the most extensive Asian studies programs in the United States. The center encourages ASU faculty research by offering travel grants funded by an endowment from the late A. T. Steele. The center also arranges lectures by ASU grad-

uate students, providing them a forum for sharing their research findings with the ASU community. In addition, the center helps bring guest lecturers to ASU from across the nation and around the world. Past speakers have included Oe Kenzaburo, winner of the 1994 Nobel Prize in Literature, astrophysicist Fang Lizhi of the University of Arizona, Donald Gregg, former ambassador to Korea and current president of the Korea Society in New York, and John W. Dower, Pulitzer-prize winning historian and professor at MIT.

The center offers one of the most comprehensive and rigorous undergraduate certificate programs at ASU. Requiring language skills in Chinese, Japanese, Indonesian, Korean, Lao, Thai, or Vietnamese. The Asian Studies Certificate Program also encourages students to gain area-specific knowledge of Asia by taking courses in anthropology, art, geography, history, humanities, literature, politics, and religion. Currently more than 200 undergraduate courses on China, Japan, Korea, South Asia and Southeast Asia are taught each year in 12 separate departments in three colleges.

The Graduate Certificate in Asian Studies provides students with official transcript recognition of specialization in Asian Studies related to their major area of study. The certificate is offered in two tracks: East Asia (China, Japan, Korea) and Southeast Asia (Indonesia, Laos, Thailand, and Vietnam). This certificate is open to any student pursuing an MA or PhD degree in any school or division of the university.

The center and program publish two scholarly *Mono-graph Series*, one specializing in Southeast Asian Studies. The Program for Southeast Asian Studies also publishes the newsletter, *Suvannabhumi*, with an international readership.

The center's Study Abroad Committee works closely with the Tempe campus International Programs Office to advise and assist with study-abroad and exchange programs. Currently, ASU students have opportunities for studying in China, Japan, Korea, Taiwan, Hong Kong, India, Vietnam, Thailand, and Singapore.

The center has 70 affiliated ASU faculty members, all with expertise in Asia as a result of research, teaching, or other professional experiences related to the region, and with appointments in numerous departments and several colleges at ASU. The center maintains a directory of these affiliates, detailing teaching and research interests as well as publications.

For more information, call the center for Asian Studies at 480/965-7184, or access the Web site at [www.asu.edu/asian](http://www.asu.edu/asian).

For more information about the Program for Southeast Asian Studies, call 480/965-4232, or access the Web site at [www.asu.edu/pseas](http://www.asu.edu/pseas).

### Center for Biology and Society

The Center for Biology and Society promotes research on the conceptual foundations of the biosciences and their interactions with society through the exploration of bioethics, biology and law, history and philosophy of science, sociology of science, and environmental history, ethics, and policy. The center brings together dispersed research and outreach activities relating to the interactions of the life sciences and society. Major sources of research funding come

from the Greenwall Foundation and the National Science Foundation; and collaborators include the Flinn Foundation and Mayo Clinic in Scottsdale. Core faculty members hold many ASU and external awards and honors, including designation as regents' professor and other named, endowed professorships as well as MacArthur, Guggenheim, and National Humanities Center fellowships.

The center provides small grants to support independent student projects through the Biology and Society Unusual Student Project Award endowment and sponsors travel programs for students to attend national meetings. Students involved in the Biology and Society Program are among the top students at ASU. Graduates of the program have received Rhodes, Marshall, Truman, Goldwater, Udall, Fulbright, Flinn, and Soros national scholarships. Among the program's alumni are biologists, medical and law school students, a published poet, and others pursuing careers in health and environmental policy, ethics and academe.

Major research and outreach programs include

1. *History and Philosophy of Science*: Conceptual foundations of science; study of knowledge and evidence, including epistemology; decision theory; environmental history.
2. *Bioethics, environmental ethics, values and society*: Biotechnology and social values, professional conduct of science, intersections with law and justice.
3. *(Bio)policy and Law*: Biopolicy, politics and economics as the impact bioscience; ethical and legal implications of biosciences; social contexts of science, explored through the social sciences.
4. *Communicating Science*: staging illness and theater and science; science and medical journalism.

For more information, visit the center in LSC 284, call 480/965-8927, or access the Web site at [lifesciences.asu.edu/centerbiosoc](http://lifesciences.asu.edu/centerbiosoc).

### Center for Meteorite Studies

The nation's largest university collection of extraterrestrial materials is available for research in the Center for Meteorite Studies. Teaching and research on meteorites, meteorite craters, and related areas of space and planetary science are accomplished through the regular academic units in cooperation with the center.

For more information, visit the center in PS C151, or call 480/965-6511.

### Center for Solid State Science

The Center for Solid State Science is a research unit within the College of Liberal Arts and Sciences.

The membership comprises faculty and academic professional researchers and research support personnel, most of whom hold simultaneous appointments in affiliated academic units. The Center for Solid State Science is the ASU focal point for interdisciplinary research on the properties and structure of condensed phases of matter at the interfaces between solid-state chemistry and physics, earth and planetary science, and materials science and engineering. It also supports interdisciplinary approaches to science and engineering educational outreach activities.

The center provides an administrative home for large, multidisciplinary, block-funded research projects. These include the NSF-supported Materials Research Science and Engineering Center (MRSEC) and the Interactive Nano-Visualization for Science and Engineering Education (IN-VSEE) project. To support these activities, members of the center operate modern and sophisticated research facilities and organize regular research colloquia and symposia.

Principal topical areas of research in the center include studies of structure and reactivity of surfaces and interfaces, electronic materials, advanced ceramics and glasses, synthesis of new materials, high-pressure research, development of techniques in high-resolution electron microscopy and micro-structural and chemical analysis, development of visualization techniques at different scales of magnification for science education, and community outreach.

The research facilities of the center include the Center for High Resolution Electron Microscopy (CHREM) and the Goldwater Materials Science Laboratories (GMSL).

**CHREM.** The center operates several ultra high-resolution and ultra high-vacuum electron microscopes and supports microscopy methods and instrumentation development, including holography, position- and time-resolved nano-spectroscopy, and energy-filtered imaging and diffraction. The center provides high-resolution capability for a large external group from other universities and industry. These facilities include

1. the Materials Facility (MF), which provides a wide range of synthesis and processing capabilities for preparation of specimen materials. MF also provides thermal analysis for study of solid-state reactions and Auger and X-ray photoelectron spectroscopy for analysis of surface compositions and electronic structure of surfaces;
2. the Materials Science Electron Microscopy Laboratory (MSEML), which provides state-of-the-art electron microscopes for analysis of microstructures, including imaging and diffraction, and high spatial resolution chemical analysis using energy dispersive X-ray and electron energy loss micro-spectroscopy;
3. the Ion Beam Analysis of Materials (IBeAM) facility, which provides compositional and structural determination of the surface and near-surface regions (0–2 mm) of solids by ion beam analysis where elemental composition and depth distribution information are needed. Channeling experiments are used to determine crystal perfection and site occupancy;
4. the Secondary Ion Mass Spectrometry (SIMS) laboratory, which provides depth profile and point composition analysis with very high chemical sensitivity, on the order of one part per billion, including isotopic analysis for many materials. SIMS is also used as a chemical microscope, to image elemental distributions on specimen surfaces;
5. the Scanning Probe Microscopy Laboratory (SPM), which provides facilities for nanoscale viewing of solid surfaces using scanning tunneling microscopy (STM), atomic force microscopy (AFM), and related

## RESEARCH CENTERS

techniques. The SPM laboratory serves as a focus for undergraduate research training programs and educational and outreach activities;

6. the Facility for High Pressure Research, which provides facilities for synthesis of new materials and for geochemistry/geophysics studies at up to 25 Gpa (250,000 atmospheres) and temperatures greater than 2000° C. These facilities are complemented by diamond anvil cells capable of in situ studies at up to one million atmospheres. This laboratory provides a focus for core research projects within the MRSEC;
7. the Goldwater Materials Visualization Facility (GMVF), which consists of a battery of linked workstations for remote operation of instruments and data collection, capture of images in real time, and advanced computing and simulation of materials. The GMVF is used in research and in undergraduate and graduate education, as well as in educational and community outreach; and
8. other specialized laboratories under development, which include high-resolution X-ray diffraction for thin film characterization, optical spectroscopy, and nuclear magnetic resonance spectroscopy for solid-state studies and research on materials under extreme conditions.

These facilities provide the primary teaching and research resources used by students in the Science and Engineering of Materials interdisciplinary PhD program and the undergraduate option for materials synthesis and processing. The facilities are also used extensively by students in disciplinary programs from affiliated departments.

For more information, visit the center in PS A213, call 480/965-4544, or access the Web site at [www.asu.edu/clas/csss/csss](http://www.asu.edu/clas/csss/csss).

### Center for the Study of Early Events in Photosynthesis

The ASU Center for the Study of Early Events in Photosynthesis was established in 1988 as part of a joint grant program of the Department of Energy, the National Science Foundation, and the Department of Agriculture. In 1990, it was designated a Regents Center of the University. Since September of 1995, it has been funded by the Office of the Vice President for Research and Economic Affairs and the College of Liberal Arts and Sciences. The center consists of about 90 students, postdoctoral associates, and research scientists led by 15 faculty members in the Department of Chemistry and Biochemistry and the School of Life Sciences. These research groups share a common goal: understanding the process of photosynthesis, which is responsible for producing all of our food and filling the vast majority of our energy and fiber needs. The impetus for development of the center was the premise that photosynthesis is a complex problem that will only yield to an investigation using a wide variety of approaches and techniques. Thus, the center serves as an infrastructure supporting individual ASU scientists and fostering multidisciplinary cooperative research projects.

The ultimate objective of the research is the elucidation of the basic principles governing the biochemical and bio-

physical processes of photosynthetic energy storage. This goal is being realized via investigation of the early events of photosynthesis, including light absorption and excitation transfer in photosynthetic antennas; the mechanism of primary photochemistry in plant and bacterial systems; secondary electron transfer processes; structure and assembly of photosynthetic antennas, reaction centers, and electron transfer proteins; pigment-protein interactions; artificial and biomimetic photosynthetic solar energy conversion systems; and mechanisms of biological electron transfer reactions.

The center is equipped with state-of-the-art instrumentation that allows students to do frontier research in a broad range of disciplines. Equipment includes a variety of pulsed lasers for measurements with time resolution ranging from sub-picoseconds to seconds, a 500 MHz NMR instrument, an EPR spectrometer, a protein X-ray facility, spectrophotometers, fluorometer, a protein sequencer, and an amino acid analyzer.

The center sponsors a weekly Photosynthesis Seminar Series and brings in visiting scientists from around the world to carry out collaborative research. Undergraduate, graduate, and postdoctoral training programs in the Department of Chemistry and Biochemistry and within the Plant Biology curriculum are central components of the center's activities.

For more information, visit the center in PS D207, or call 480/965-1963.

### Center for the Study of Religion and Conflict

The Center for the Study of Religion and Conflict promotes research and education on the nature, causes, and consequences of religious conflicts around the world with the goal of contributing imaginative strategies to their containment or resolution. As Committed to a transdisciplinary, problem-solving approach, the center sponsors a broad range of programs and activities that stimulate inquiry and enhance knowledge among students, faculty, policy-makers, religious leaders, and the general public, locally, nationally, and internationally.

The center's signature programs include interdisciplinary faculty seminars and working groups, faculty and graduate student colloquia, research conferences and seed grants, undergraduate fellowships, and public lectures. Through these research and education initiatives, the center seeks to enhance empirical knowledge of particular cases, analytical and theoretical insights that contribute to broader, comparative understanding, and normative reflection that leads to wiser, more effective responses and interventions.

Major research interests include

1. *Conflicts at the borders of religion and the secular.* Descriptive, analytic and normative investigations of the role of religion in public life in a global context; constructions of the religious-secular boundary as a focal point for comparative studies of conflicts within and among nation-states.
2. *Religion and conflict: Disrupting violence.* Empirical and normative studies of the role of religion in fueling conflict, its potential to disrupt violence, and the applicability of group conflict and conflict resolution research to religious conflict.

For more information, visit the center in ECA 385, or call 480/965-7187, or access the center's Web site at [www.asu.edu/csre](http://www.asu.edu/csre).

### CRESMET

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 33.

### Exercise and Sport Research Institute

The Exercise and Sport Research Institute (ESRI) is an interdisciplinary research unit located in the Department of Kinesiology and serves, in part, as a research facility for the interdisciplinary doctoral program in exercise science. Faculty and graduate students within ESRI investigate a wide range of topics concerning physical activity, including different age cohorts, levels of health, levels of ability and fitness, levels and types of training, and physical and emotional stresses, nutrition, and genetic backgrounds. Where applicable, these aspects are studied using an interdisciplinary approach. ESRI is affiliated with a number of clinical and research institutions in the Phoenix area.

ESRI houses numerous specialized research laboratories. *Biomechanics* applies the laws of mechanics to the study of human movement. Current research examines kinematic and kinetic determinants of locomotion patterns in walking, running, cycling, and swimming; neuromusculoskeletal modeling and computer simulation of locomotion in clinical and sport applications; ergonomics; and mechanisms underlying upper extremity repetitive strain injuries. *Exercise physiology* is the study of physiologic systems (cardiovascular, respiratory, muscular, endocrine, metabolic) under conditions of stress, particularly exercise stress. Both acute exercise responses and chronic adaptations resulting from exercise training are considered in relation to health and performance and are investigated in several specialized labs. The *Exercise Biochemistry Lab* examines subcellular systems involved in the provision and regulation of energy transfer during exercise. The *Exercise Endocrinology Lab* studies interrelationships of exercise and training with stress, hormones, neurotransmitters, and the immune system. Research in the *Motor Control Lab* investigates how movement is regulated and controlled via the nervous system in normal and pathological populations. Special emphases include motor deficits attributed to basal ganglia dysfunction and upper extremity coordination, particularly finger and hand posture, in reaching and prehensile movements. *Motor development* studies how human movement is generated and evolves throughout the lifespan. Current research focuses on learning and development of bimanual coordination. Timing and coordination of perceptual-motor skills are measured in normal developing children, persons with Down syndrome, and adults to investigate cerebral asymmetries and specificity of learning. The *Sport and Exercise Psychology Lab* examines the relationship between psychological constructs and physical activity and the influence of participation in physical activity on psychological phenomena. Current research is designed to examine the influence of physical activity, fitness, and particular sport practices on psychophysiological mechanisms and cognitive functioning; the effect of psychological skills for performance enhancement; motivational aspects of physical activ-

ity across the lifespan; and the effects of exercise on mental health.

For more information, visit ESRI in PEBE 159, or call 480/965-7906.

### Hispanic Research Center

The Hispanic Research Center (HRC) is a university-wide interdisciplinary unit, dedicated to research and creative activities. Administered through the College of Liberal Arts and Sciences, the HRC performs basic and applied research on a broad range of topics related to Hispanic populations, disseminates research findings to the academic community and the public, engages in creative activities and makes them available generally, and provides public service in areas of importance to Hispanics.

Faculty, staff, and advanced graduate students organize into working groups to develop a broad range of specific projects and lines of inquiry within the general categories of Hispanic entrepreneurship, science and technology, information and data compilation and dissemination, the Hispanic polity, and the arts. Ongoing activities of the HRC, primarily funded by external grants, include the Arizona Hispanic Business Survey, the *Bilingual Review Press*, the Community Art and Research Outreach (CARO), Chicana and Chicano Space: Art Education Web site, Digital Divide Solutions Project, Project 1000, and the Western Alliance to Expand Student Opportunities.

CARO sponsors creative activities and research in collaboration with community-based organizations and ASU faculty.

For more information, visit the HRC in CFS 104, call 480/965-3990, or access the HRC Web site at [www.asu.edu/clas/hrc](http://www.asu.edu/clas/hrc).

### Institute of Human Origins

The Institute of Human Origins (IHO), founded in 1981 by Donald Johanson, became part of the College of Liberal Arts and Sciences in 1997. IHO is a multidisciplinary research organization dedicated to the recovery and analysis of the fossil evidence for human evolution. IHO's scientists carry out field research at sites in Africa, the Middle East, and Asia. IHO houses the largest collection of *Australopithecus afarensis* casts (including "Lucy," a 3.2 million-year-old human ancestor) in the world as well as an extensive collection of other fossil hominid casts. IHO's library contains more than 3,000 volumes, numerous journals, videotapes, audiotapes, and slides related to human evolution and fossil sites. IHO produces periodic newsletters, offers lecture series, conducts tours and workshops, and supports numerous informal science education outreach projects.

For more information, visit IHO in SS 103, call 480/727-6580, or access the IHO Web site at [www.asu.edu/clas/iho](http://www.asu.edu/clas/iho).

### Joan and David Lincoln Center for Applied Ethics

The Joan and David Lincoln Center for Applied Ethics is a university-wide center for applied ethics that is administratively housed in the College of Liberal Arts and Sciences. Its mission is

1. to develop and coordinate a strong focus on theoretical and applied ethics across intellectual disciplines and professional programs within the university.

## RESEARCH CENTERS

2. to support teaching and creative research and programming in ethics, especially as applied to a variety of professional fields and careers,
3. to foster collaborative ethics programming that involves the center and its Lincoln Professors and community organization in addressing major ethical challenges that confront individuals, public policy makers, and local, state, national, and international institutions.

For more information, visit the Center in AG 355, call 480/727-7691, or access the Web site at [www.asu.edu/clas/lincolncenter](http://www.asu.edu/clas/lincolncenter).

### Latin American Studies Center

Arizona maintains an ever-growing interest in Latin America that draws upon an extensive experience of historical and geographical ties. The Latin American Studies Center is the focal point for these interests at ASU. Through its program, the center serves the university community and maintains strong ties with various Latin American organizations in the state and the nation. Principal activities are coordinating Latin American studies at the undergraduate and graduate levels; sponsoring student exchange programs; organizing events featuring Latin American arts and culture, numerous seminars, and research conferences; publishing a wide range of professional materials; and undertaking and facilitating research about the region.

The center administers student exchange programs with the Catholic University of Bolivia and three Mexican universities—the Autonomous University of Guadalajara, the Autonomous University of Nuevo Leon, and the University of Sonora. Each spring several ASU students are selected to attend courses at the Latin American universities while Bolivian and Mexican students attend ASU. The center also has an exchange agreement with the Pontific Catholic University of Ecuador for faculty and students as well as summer programs in Quito, Ecuador, and Ensenada, Mexico.

The center is a member of the American Modern Language Association, Consortium of U.S. Research Programs for Mexico, Consortium for Latin American Studies Association, Pacific Coast Council on Latin American Studies, Rocky Mountain Council for Latin American Studies, Consortium of Latin American Studies Programs, and Conference on Latin American History.

The center directly encourages research, not only through its research conferences, but also through close coordination with the Latin American collection of Hayden Library and networking with Latin American universities.

For more information, visit the center in COOR 4450, or call 480/965-5127.

### Russian and East European Studies Center

The ASU Russian and East European Studies Center (REESC) functions within the College of Liberal Arts and Sciences. REESC administers research, training, and outreach programs involving the lands and people of Eastern Europe and Eurasia. More than two dozen ASU faculty from five colleges and University Libraries collaborate in center programming. REESC also works with other postsecondary educational institutions, government agencies, local

high schools, and private corporations in coordinating programs of research, study, travel, and exchange relating to Russia, Eastern Europe, and Eurasia. The center is an institutional member of the American Association for the Advancement of Slavic Studies (AAASS). ASU is also a member of the International Research and Exchanges Board (IREX), which administers United States academic exchanges with Russia and Eastern Europe.

The Critical Languages Institute (CLI) offers intensive summer language instruction in the less commonly taught languages of Eastern Europe and Eurasia. Summer practicums and study abroad programs offer students opportunities to take classes and conduct research overseas. REESC/CLI faculty mentor students for competitive national fellowships, including Fulbright and the National Security Education Program.

For more information, call REESC at 480/965-4188 or CLI at 480/965-7706, or access their Web sites at [www.asu.edu/reesc](http://www.asu.edu/reesc) and [www.asu.edu/cli](http://www.asu.edu/cli).

### Virginia G. Piper Center for Creative Writing

The Virginia G. Piper Center for Creative Writing at ASU was created in the fall of 2003. The center's goal is to elevate the university's creative writing program to international prominence while enriching the intellectual and artistic life of Arizona and the entire southwest.

The historic ASU President's House, located at Palm Walk and Tyler Mall on the Tempe campus, will serve as the permanent campus home for the center. Renovations are anticipated to be completed in the fall of 2004.

Other programs funded by the center include

1. an international writer's exchange program;
2. funding of an endowed chair that will be used to attract high profile, distinguished authors to campus for extended residencies, authors who will work closely with ASU faculty and students; and
3. creation of the Piper Creative Scholars Program, designed to support ASU faculty and others in the pursuit of research, writing, and other creative activities.

For more information, access the center's Web site at [www.asu.edu/piperwcwcenter](http://www.asu.edu/piperwcwcenter).

## COLLEGE OF PUBLIC PROGRAMS

### Center for Nonprofit Leadership and Management

The Center for Nonprofit Leadership and Management (CNLM) promotes the understanding and improved practice of nonprofit organizations. The center coordinates a nonprofit sector research program, facilitates educational offerings in nonprofit studies, serves as a convener on topical issues, and provides selected technical assistance and information services. The center facilitates relationships among students, faculty, and community organizations across a range of research and outreach activities. In addition, the center convenes leaders and managers from the nonprofit, business, and government sectors on topical issues pertinent to building nonprofit capacity in the region. The center supports the activities of three complementary nonprofit leadership and management education programs: the ASU American Humanities Program (undergraduate certificate), a

postbaccalaureate program (graduate certificate in Non-profit Leadership and Management), and a noncredit program (through the Nonprofit Management Institute). For more information, call 480/965-0607, or access the Web site at [www.asu.edu/copp/nonprofit](http://www.asu.edu/copp/nonprofit).

### **Center for Urban Inquiry**

The mission of the Center for Urban Inquiry (CUI) is threefold: critical social science research, community engagement, and innovative education. The research agenda prioritizes the scrutiny of economic and social privilege and disadvantage. Specific research requests from policymakers, nonprofit and government agencies, and citizen groups are also considered. This includes a rapid response community research initiative established to provide intensive feedback to community research requests that must be completed within a limited time frame, as well as long-term process and outcome evaluations of programs and policies in the private and public sectors. CUI also facilitates collaborative research efforts among faculty, research professionals, and students. Such research includes an examination of the individual and collective costs of poverty in the Southwest and the design of comprehensive research to explore the extent and nature of racial profiling among agents of social control.

CUI's direct community involvement ranges from the local to the global. This includes support of neighborhood groups advocating for homeowners and renters within the context of urban development and displacement, the creation of a hospital-based community partnership to combat youth violence, and participation in United Nations summits on sustainable development and indigenous peoples' rights. The center serves the university and community through innovative educational endeavors, including a distance-learning college program for incarcerated women, in-depth research training for graduate and undergraduate students, and courses in service learning, community action research, and international urban issues. CUI also serves as the administrative and programmatic home for the needs-based Nina Mason Pulliam Legacy Scholars Program for nontraditional students.

For more information, call 480/965-9216, access the center's Web site at [www.asu.edu/copp/urban](http://www.asu.edu/copp/urban), or write

CENTER FOR URBAN INQUIRY  
ARIZONA STATE UNIVERSITY  
PO BOX 874603  
TEMPE AZ 85287-4603

### **Morrison Institute for Public Policy**

Morrison Institute for Public Policy conducts research which informs, advises, and assists Arizonans. As part of the School of Public Affairs (College of Public Programs), the institute serves as a bridge between the university and the community. Through a variety of publications and forums, Morrison Institute shares research results with, and provides services to, public officials, private sector leaders, and community members who shape public policy. A nonpartisan advisory board of leading Arizona business people, scholars, public officials, and public policy experts assist the institute with its work. Morrison Institute was established in 1982 through a grant from Marvin and June Morrison of Gilbert, Arizona and is supported by private

and public funds and contract research. The institute conducts research on a broad range of topics, including areas such as education, urban growth, workforce development, economic development, arts and culture, quality of life, and science and technology.

For more information, call 480/965-4525, access the institute's Web site at [www.asu.edu/copp/morrison](http://www.asu.edu/copp/morrison), or write

MORRISON INSTITUTE FOR PUBLIC POLICY  
ARIZONA STATE UNIVERSITY  
PO BOX 874405  
TEMPE AZ 85287-4405

### **VICE PRESIDENT FOR RESEARCH AND ECONOMIC AFFAIRS**

#### **Biodesign Institute at Arizona State University**

The Biodesign Institute at Arizona State University was established by ASU to provide an intellectual and physical environment for large-scale interdisciplinary and collaborative research. The vision for the institute is to make it the benchmark for excellence in use-inspired research focused on the intentional manipulation of biological systems. The institute is becoming a catalyst for innovation, facilitating the multidisciplinary investigations in basic science and engineering that are required to design critical biotechnology solutions in the 21st century.

The hallmark of the Biodesign Institute is a physical and intellectual environment that leverages communication, collaboration, integration, and a research agenda that emphasizes the application of discoveries to commercial uses and societal benefits. The research programs are clustered into four focus areas of increasing contemporary importance:

1. biologics and therapeutics,
2. nano-biosystems and devices,
3. neural interface engineering, and
4. integrative tools for genomics and informatics.

The institute's output is measurable in terms of highly trained professionals, pioneering discoveries, new technologies, new practices, and new businesses—all of which can drive statewide economic development. The institute is becoming a hub for biodesign research in central Arizona, building collaborative networks among scientists and clinical researchers from leading industries and institutions. The Biodesign Institute is anchored in a Tempe campus research complex.

For more information, access the institute's Web site at [www.biodesign.org](http://www.biodesign.org).

#### **Institute for Computing and Information Science and Engineering**

The Institute for Computing and Information Science and Engineering (InCISE) fosters interdisciplinary research, education, and entrepreneurship in computing. A collection of basic research activities within the Department of Computer Science and Engineering (CSE) forms the inner core of InCISE, while the activities to which CSE contributes form the outer core of the institute. The three core research groups of InCISE are the Center for Cognitive Ubiquitous Computing, the Intelligent Information Integration core area, and the Information Assurance core area. InCISE also



## RESEARCH CENTERS

collaborates with five affiliated research groups: the Consortium for Embedded and Internetworking Technologies; the Partnership for Research in Stereo Modeling; the Arts, Media and Engineering Research Center; the Center for Advancing Business through Information Technology; and the Software Factory.

In addition, InCISE serves as the focal point for a host of researchers from various disciplines who want to get connected to the computing and information community at ASU. These domains include cognitive sciences, health sciences, social sciences, earth sciences, space sciences, biosciences, disability studies, and linguistics.

### International Institute for Sustainability

Established originally in 1974 as the Center for Environmental Studies, the primary mission of this institute is to facilitate collaborations among faculty researchers and to aid decision making about environmental issues. Through its collaborations, both with ASU faculty and partners from government, business, and the educational community, the institute advances the identification of key local and global environmental issues and collects reliable information to be

used by scholars, policy makers, and the general public. For more information, access the institute's Web site at [ces.asu.edu](http://ces.asu.edu).

The institute is also home to the Central Arizona–Phoenix Long-Term Ecological Research (CAP LTER) project, one of only two urban sites in the NSF-funded LTER network. The CAP LTER project focuses on an arid-land ecosystem profoundly influenced, even defined, by the presence and activities of humans, and involves more than 50 associated faculty from biology, ecology, engineering, geography, geology, sociology, urban planning, and anthropology. For more information, access the CAP LTER Web site at [caplter.asu.edu](http://caplter.asu.edu).

The institute administers an NSF-funded Integrative Graduate Education and Research Training (IGERT) grant to develop a multidisciplinary program in urban ecology. The program's research component engages students in wide-ranging and multidisciplinary investigations into the ecology of cities, with the CAP LTER project providing the research infrastructure. For more information, access the IGERT Web site at [ces.asu.edu/igert](http://ces.asu.edu/igert).

The institute also facilitates applied environmental research projects undertaken by the Southwest Center for Environmental Research and Policy (SCERP), a consortium of five U.S. and four Mexican universities. SCERP develops a research agenda for the study of air and water quality, hazardous waste problems, environmental health issues, and growth management questions in the border region. For more information, access the Web site at [www.scerp.org](http://www.scerp.org).

For more information, visit the institute in TMPCT 151, call 480/965-2975, or access the institute's Web site at [ces.asu.edu](http://ces.asu.edu).

### Stardust Center for Affordable Homes and the Family

The Stardust Center for Affordable Homes and the Family is a university-wide transdisciplinary center that assists the affordable housing development community of Arizona to produce and manage service-enriched housing in a manner that improves the social stability of neighborhoods, the economic productivity of families, and the educational performance of children, while enhancing the quality of the built and natural environments.

The center provides research, services, and education to increase the quantity and quality of affordable homes produced for Arizona's families. This is accomplished by the center's staff in collaboration with ASU faculty, visiting scholars, expert practitioners, members of the broader community, and contributors to the present system for producing and servicing affordable housing and residents in Arizona. The focus of the center's engagement is the affordable housing system, that is, the public and private individuals and groups who develop and manage affordable homes and communities and who provide services to the families who live in them.

For more information, call the center at 480/727-5456, or access the center's Web site at [www.asu.edu/stardust](http://www.asu.edu/stardust).



Biodesign Institute Building A was recently completed. The complex will include three additional buildings.

Tim Trumble photo



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# Student Services

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The university is committed to the belief that an education involves more than attending class. While the acquisition of knowledge is a central part of the university experience, learning about others, about independence and leadership, and about living in a complex society are equally important. Student Affairs' services and developmental programs reflect this philosophy.

## RESIDENTIAL LIFE

Living in one of the ASU residence halls provides students the opportunity to make the most of their university experience. Special residential communities for freshmen, honors students, students in particular academic areas, and students interested in a healthy living community offer opportunities and activities that enrich the educational experience.

The Freshman Year Experience program (see "Freshman Year Experience," on this page) provides a unique environment of classrooms, live-in tutors, academic advisors, and other support services designed to help freshmen develop skills for success.

Because the demand for campus housing is high, students are encouraged to apply for housing early (before February 1) for the best chance to live on campus for fall semester. Housing is not guaranteed. Students must be admitted to ASU before applying for housing. Requests for specially modified rooms for students with disabilities should be noted on the application.

Students will receive residence hall application information with their admission certificate. For more information, access the Web site at [www.asu.edu/reslife](http://www.asu.edu/reslife), call 480/965-3515, or write to

RESIDENTIAL LIFE  
ARIZONA STATE UNIVERSITY  
PO BOX 870212  
TEMPE AZ 85287-0212

Information about optional meal plans on the Tempe campus may be obtained by calling 480/965-3464 or writing

CAMPUS DINING  
ARIZONA STATE UNIVERSITY  
PO BOX 871101  
TEMPE AZ 85287-1101

## East Campus Housing

On-campus housing at the East campus ranges from residence hall rooms for single students to two- to four-bedroom homes for students with families. Three distinct freshman residence halls are available for students participating in the East campus's Freshman Year Experience program. For more information, see "Williams Campus Housing and Residential Life," page 530, call 480/727-1700, or access the Web site at [www.east.asu.edu/housing](http://www.east.asu.edu/housing).

## West Campus Housing

Residential Life at the West campus is committed to establishing a living and learning environment by developing programs that promote academic success and personal development while providing attractive, accessible facilities that meet the needs of the campus community. The living and learning program offers a unique experience of an academic advisor in residence, faculty mentors, study sessions, tutoring, and other support services designed to assist all residents with their academic development. The 400-bed residential community, Las Casas, features two three-story buildings of apartment-style residential units with full kitchens, laundry facilities, a multipurpose room, a classroom and computer lab, a swimming pool, and sand volleyball. Amenities include basic cable, in-room Internet access, coordinated educational and social activities, and easy access to campus resources. For more information, call 602/543-CASA, or access the Web site at [www.west.asu.edu/lascasas](http://www.west.asu.edu/lascasas).

## STUDENT DEVELOPMENT

ASU students experience success through active involvement in learning and within their community. Student development enhances student learning through academic support services and programs and encourages student involvement in the community through participation in curricular programs, clubs, employment, leadership opportunities, organizations, service, and the arts.

## Freshman Year Experience

A student's freshman year is a time to learn new ideas, meet new people, and grow as an educated citizen ready to contribute to the community. Freshman Year Experience (FYE) provides a strong foundation for all first-year students and students in transition that fosters the student's academic and personal success. FYE achieves this mission by providing academic support services, opportunities for the exchange of ideas, and workshops; generating and supporting research and scholarship; hosting visiting scholars and practitioners; fostering faculty interaction within living and learning communities; administering a Web site; and offering student involvement opportunities with the university community. FYE helps freshmen achieve academic and personal success by coordinating services and programs in settings designed just for freshmen.

FYE features

1. Tutoring support offered at no cost to all freshmen by tutors who live in the residence halls, creating an academic-focused atmosphere available through tutoring centers in the residence halls open five evenings each week;
2. Academic advising in FYE sites, with academic advisors employing a developmental approach to advising;

## STUDENT SERVICES

3. Computer labs at FYE sites available 24 hours a day, with lab attendants available during evening hours to provide assistance and answer questions;
4. A full complement of freshman courses offered at FYE sites, such as freshman-level English, history, math, political science, and the university success course for freshmen;
5. Peer coaching: undergraduate and graduate students working with first-year students individually or in a group setting to assist the students with transitional issues such as time management, note taking, study skills, critical reading, and test taking;
6. Personal development and support programs, with presentations from various departments, focusing on academic expectations, academic skills, freshman transition, major and career choice, and other related developmental issues; and
7. Living and learning communities for freshmen in the W. P. Carey School of Business, Ira A. Fulton School of Engineering, Tempe campus College of Education, Katherine K. Herberger College of Fine Arts, College of Public Programs, College of Nursing, College of Liberal Arts and Sciences, College of Architecture and Environmental Design, and Barrett Honors College.

FYE is open to all freshmen regardless of their place of residence (on or off-campus). Halls designated as FYE sites in 2005-2006 are Cholla, Manzanita, McClintock, Palo Verde complex, San Pablo, Sonora, and Sahuaro. For more information, call 480/965-1512, or access the Web site at [www.asu.edu/vpsa/fye](http://www.asu.edu/vpsa/fye). For information regarding the East campus FYE program, access the Web site at [www.east.asu.edu](http://www.east.asu.edu).

### Learning Resource Center

The Learning Resource Center (LRC) provides academic support to ASU students through tutoring, peer coaching, academic skills workshops, software training, and instructional computer labs.

Tutoring is offered in approximately 100 courses, including mathematics, languages, business, physics, chemistry, and computer science. Students can participate in scheduled small-group tutoring Monday through Friday during daytime hours at two campus locations: Palo Verde West (north campus) and in MU 14. Walk-in tutoring is available Sunday through Thursday during evening hours in Palo Verde West as well as in all FYE Residence Halls. Residential and off-campus students are welcome to use tutoring services in all locations.

The peer coaching program provides structured assistance to ASU students to help improve general academic skills, including time and stress management, organizational strategies, textbook reading, and test preparation. Students can be seen on a walk-in basis or by appointment. Those who qualify can schedule weekly meetings with a peer coach throughout the semester. Peer coaches regularly present workshops on academic skills topics.

The LRC offers students two options to improve their software skills: individual tutoring and group workshops. Students can walk in or schedule tutoring sessions with software specialists or participate in workshops offered in LRC

instructional labs. These are located in the Memorial Union (Montgomery Instructional Lab), Palo Verde West, and SSV 392.

For more information or to register for workshops, call the LRC in Palo Verde West at 480/965-6254 or in MU 14 at 480/965-7728, or access the Web site at [www.asu.edu/lrc](http://www.asu.edu/lrc).

### Child and Family Services

Child and Family Services (CFS) provides resource and referral services to students, faculty, and staff. Information about the Campus Children's Center (480/921-2737), Child Development Laboratory (480/965-7267), Child Study Laboratory (480/965-5320), the College of Education Preschool (480/965-2510), and Open Horizons (480/894-8870) may be obtained at CFS or by calling the programs directly. CFS maintains a child care referral database and coordinates workshops and discussion groups on child and elder care issues. Educational materials and listings of additional on- and off-campus activities, programs, and services for children and their families are available at the CFS office, MU 14C.

For more information, call 480/965-9515, or access the Web site at [www.asu.edu/mu/family](http://www.asu.edu/mu/family).

For specific information about child care at the East campus, call 480/279-4829; at the West campus, call 602/543-5437.

### Associated Students of Arizona State University

Associated Students of Arizona State University (ASASU) is the student government of the university and the official representative of the undergraduate and graduate student body in matters of university governance and budgeting. Through elected, volunteer, and paid positions, students can become active, contributing members of ASASU. Students can participate in a wide variety of activities and services, including College Councils, Student Senate, Graduate Assembly, and Safety Escort Service. Students interested in concerts, lectures, and Homecoming are encouraged to become involved with the Programming and Activities Board. For more information, call 480/965-3161, or access the Web site at [www.asu.edu/asasu](http://www.asu.edu/asasu). For specific information about student government at the East campus call 480/727-1065; at the West campus call 602/543-8186.

### Sun Devil Involvement Center

Located on the third floor of the Memorial Union, the Sun Devil Involvement Center provides opportunities for student involvement through clubs, coalitions, community service, fraternities and sororities, leadership, programming, student government, and cocurricular connections. For more information, call 480/965-2255, or access the Web site at [www.asu.edu/mu/sdic](http://www.asu.edu/mu/sdic).

**Student Legal Assistance.** Student Legal Assistance counsels and advises students regarding their legal rights and responsibilities. This service is offered free of charge to currently enrolled ASU students. Notary services are also available. Typical consultation topics include auto-related issues, criminal matters, debt, domestic relations, wills, towing and traffic violations, landlord/tenant issues, and miscellaneous issues. Student Legal Assistance is located in the Memorial Union, Room 329. For more information, call

480/965-6307, or access the Web site at [www.asu.edu/mu/legal](http://www.asu.edu/mu/legal).

### Co-Curricular Programs

Co-Curricular Programs (CCP) encourages involvement by providing opportunities for student and faculty interaction outside the traditional classroom setting. Faculty from a variety of different disciplines collaborate with CCP to offer programs that foster dialogue, lead to the exchange of ideas, and provide out-of-class learning experiences. Each year, CCP sponsors a number of annual events, such as the Student/Faculty Retreat and the Last Lecture Series. In addition, CCP offers specialty programs geared toward the interests of students in various majors. The CCP Student Advisory Board assists in the development and promotion of programs for the campus community.

For more information on CCP programs or the Student Advisory Board, call 480/965-9600, or access the Web site at [www.asu.edu/partnerships](http://www.asu.edu/partnerships).

### Student Organization Resource Center

The Student Organization Resource Center (SORC) provides opportunities for students to get involved with established campus organizations and helps students start new organizations. The center maintains a list of all registered groups, assists with the coordination of major events, and provides a resource desk where students can access information on student activities and leadership opportunities. Members of REACH, a student paraprofessional organization, are available for outreach sessions.

SORC also connects students with opportunities to participate in special events and programs on campus. Programs supported by SORC include live entertainment in the Memorial Union's Art Café and two weekly student-run comedy troupes—*Barren Mind Improv* and *Farce Side Comedy Hour*.

For more information, call 480/965-2255, or access the Web site at [www.asu.edu/clubs](http://www.asu.edu/clubs).

### Student Leadership Programs

Student Leadership Programs (SLP) provides opportunities to students, faculty, and staff interested in individual and support group leadership development. The SLP office offers a wide variety of leadership development resources, including a library complete with books, articles, and audio and visual materials; leadership seminars; and the Emerging Leaders Program, an eight-week interactive learning experience designed to introduce students to various leadership styles. Staff is available for presentations; workshop facilitation; and advising, guidance, and coordination of efforts in leadership development. For more information, call 480/965-2255, or access the Web site at [www.asu.edu/mu/slp](http://www.asu.edu/mu/slp).

**Leadership Classes.** A series of leadership classes are offered to provide students an opportunity through class activities, discussions, and small group experiences to understand leadership theories and models, to develop leadership skills, and to apply leadership knowledge through service and internships. For more information, access the Web site at [www.asu.edu/mu/slp](http://www.asu.edu/mu/slp).

### Greek Life

Involvement in a fraternity or sorority can be one of the most rewarding aspects of a student's college experience. Fraternities and sororities provide opportunities for leadership development, academic success, campus involvement, community service, social interaction, brotherhood/sisterhood, and intramural participation. Sixteen fraternities are governed by the Interfraternity Council and 10 sororities hold memberships in the Panhellenic Council. The National Panhellenic Council offers six predominantly African American fraternities and sororities for involvement with community service, cultural learning, and a deep sense of tradition. The Hispanic Greek Council, three fraternities and three sororities, offers Hispanic students an opportunity to work on service projects, give back to the Latina/Latino culture, and network within the Hispanic community. In addition to the benefits of lifelong membership, many of the fraternities and sororities have chapter housing that provide a rewarding living/learning option for their members. For more information, call Greek Life at 480/965-2255, or access the Web site at [www.asu.edu/mu/greeklife](http://www.asu.edu/mu/greeklife).

### Community Service Program

The Community Service Program strives to engage students, faculty, and staff in meaningful cocurricular service. Through the integration of academic studies with public service, the campus community is provided with intentional avenues to serve the societal needs of Valley communities. By engaging students in worthwhile service while promoting a lifelong commitment to citizenship and social justice, the Community Service Program not only augments curricular learning but also affords students the key opportunity to turn learning into social action.

For more information, visit the Community Service Program, located at the Sun Devil Involvement Center on the third floor of the Memorial Union, access the Web site at [www.asu.edu/mu/community](http://www.asu.edu/mu/community), or call 480/965-2255.

**Short-Term Service Projects.** The Community Service Program collaborates with Valleywide agencies and campus entities to provide meaningful episodic service events such as Alternative Spring Break, the Cesar Chavez Day of Service, the Fall Service Plunge, and the Martin Luther King Jr. Day of Service. Current information can be found in updated listings in the office and on the Web site on a weekly basis.

**Cocurricular Service Learning Opportunity Clearinghouse.** A detailed clearinghouse of information from more than 400 social service and nonprofit agencies across the Valley of the Sun offers information about internships, post-graduation opportunities, and long-term service. Students can use this resource to design a service experience that complements their academic, personal, and professional goals.

**Cocurricular Service Learning in the Classroom.** The Community Service Program works with faculty and instructors on campus to successfully integrate cocurricular service learning into the classroom setting. Information regarding courses that integrate cocurricular service

## STUDENT SERVICES

learning is available for students, and the resources are open to students as they seek to meet course requirements.

**Workshops and Skill-Building.** Throughout the year, the Community Service Program offers workshops and presentations around service-related topics to develop strong campus leaders and exceptional civic leaders for the future. Topics may include servant leadership, volunteer management, event planning, and reflection. Workshop series information is available in the office.

### MEMORIAL UNION

The Memorial Union (MU) serves as the campus community center for students, faculty, staff, and guests on the Tempe campus. Opportunities for student involvement are abundant with programs and services that enhance the ASU experience. Students can connect through activities, clubs, community service, organizations, student government, and the arts.

The building's features include an art café; computer lab and workroom; Internet stations; multipurpose meeting rooms; study and group work areas; Sparky's Den: a recreation center with bowling, billiards, and a video arcade; and tutoring and academic support.

Services provided in the MU include banking facilities and several ATMs, a card and gift shop, catering, infant care facilities, film developing, food venues, a general store, a hair salon, Internet stations, a music store, a post office, and a travel agency.

The MU also maintains a permanent art collection composed of paintings, fine art prints, photographs, sculptures, and tapestries. The collection, located throughout the four levels of the building, includes works of faculty, alumni, and students from ASU's School of Art, as well as works of other recognized artists.

A variety of student employment opportunities are available at the MU. Some of the student positions include administrative clerk, building manager, computer lab attendant, event assistant, information desk associate, and Sparky's Den associate. The MU offers flexible work schedules to accommodate class schedules. Promotion from within the various work groups is encouraged.

For more information about any of these services or to explore employment, call the MU Information Desk at 480/965-5728, or access the Web site at [www.asu.edu/mu](http://www.asu.edu/mu).

### STUDENT LIFE

Student Life strives to enhance student learning and student achievement by fostering a positive, inclusive campus environment; providing services to meet the needs of a diverse student body; and empowering students to advocate for their needs and interests by developing leadership and life skills. Opportunities for leadership and community involvement help students prepare for their roles as responsible citizens. Students learn and sharpen their leadership skills through their involvement in student activities, workshops, and community service. For more information, access the Web site at [www.asu.edu/studentlife](http://www.asu.edu/studentlife).

**Adult Re-Entry Program.** The Adult Re-Entry Program offers a variety of services to assist students age 25 and

older in reaching their academic goals, such as preenrollment assistance, orientation, peer mentoring, resource and referral information, support groups, and scholarships. The Adult Re-Entry Center in MU 14 provides a welcoming environment for individual or group study. For more information, call 480/965-2252, or access the Web site at [www.asu.edu/studentlife/reentry](http://www.asu.edu/studentlife/reentry).

**Danforth Chapel.** Built in 1948 as a multifaith chapel and retreat for the university community to use for prayer, meditation, weddings, memorial services, baptisms, Bible study groups, and worship, Danforth Chapel continues to provide opportunities for those functions. The chapel is located on Cady Mall between the Memorial Union and Hayden Library. For more information, call 480/965-3570, or access the Web site at [www.asu.edu/studentlife/danforth](http://www.asu.edu/studentlife/danforth).

**Disability Resource Center.** The Disability Resource Center (DRC) facilitates equal access to educational and cocurricular programs, campus activities, career exploration, and employment opportunities for qualified ASU students with disabilities, ensuring they are provided with mandated reasonable and effective accommodations. A U.S. Department of Education TRIO Student Support Services Grant also allows DRC to incorporate a unique academic enhancement model into the disability support services program for 270 selected students with disabilities who meet TRIO eligibility requirements. Disability documentation is required and information regarding disabilities is confidential. DRC is located on the first floor of Matthews Center. For more information, call 480/965-1234 (voice) or 480/965-9000 (TTY), or access the Web site at [www.asu.edu/drs](http://www.asu.edu/drs). Faxes may be sent to 480/965-0441.

**Educational Opportunity Center.** This community outreach service focuses on first-generation, low-income individuals. The center offers vocational testing and guidance as well as assistance in application for admission, scholarships, and financial assistance at a postsecondary institution suited to a particular individual's needs. Services are free, partially funded by the U.S. Department of Education. The center has a main office at 1000 East Apache Blvd., Suite 118, in Tempe and satellite offices around Maricopa County. For more information, call 480/894-8451, or access the Web site at [www.asu.edu/studentlife/eoc](http://www.asu.edu/studentlife/eoc).

**International Student Office.** The International Student Office (ISO) supports student success by engaging students to maintain compliance with visa regulations and by providing programming and advising that enriches their educational experiences. The ISO's principal responsibilities and services include administrative support, counseling, initial orientation, visa administration, and campus and community activities that promote international awareness and enrich the educational experiences of students. The ISO is located in SSV 265. For more information, call 480/965-7451, or access the Web site at [www.asu.edu/studentlife/iso](http://www.asu.edu/studentlife/iso).

**Multicultural Student Center.** The Multicultural Student Center supports the transition, retention, and graduation of multicultural students by engaging them in various support services and programs within a culturally affirming

environment. One-on-one guidance, consultation, and referral are offered to address the academic, personal, and cultural needs of multicultural students. The Hispanic Mother/Daughter Program and the Native American Achievement Program strive to increase the persistence and graduation rates of students within the Hispanic and American Indian communities. Summer opportunities, such as the Academic Program Promoting Leadership Enrichment and Service, African American Summer Bridge Program, and the Native American Summer Institute, assist students with the transition and adjustment to university life. The Asian Lead Academy and Black Youth Recognition Conference provide outreach to the community in an effort to help junior high and high school students develop academically, personally, and professionally. The student coalitions, as well as other multicultural student organizations, provide cultural programming and academic support to African American, American Indian, Asian, Asian Pacific American, Hispanic/Latino, gay, lesbian, bisexual, transgendered, and women student communities.

The MSC office is located in SSV 394. For more information, call 480/965-6060, or access the Web site at [www.asu.edu/studentlife/msc](http://www.asu.edu/studentlife/msc).

### STUDENT ADVOCACY AND ASSISTANCE

Student Advocacy and Assistance guides students in resolving educational, personal, and other campus impediments toward successful completion of their academic goals. Student Advocacy and Assistance links students with appropriate university and community resources, agencies, and individuals; collaborates with faculty and staff in the best interest of the students; and follows through to bring efficient closure to student concerns. Student Advocacy and Assistance is located in Student Life, SSV 263. For more information, call 480/965-6547, or access the Web site at [www.asu.edu/studentlife/advocacy](http://www.asu.edu/studentlife/advocacy).

**Student Judicial Affairs.** Student Judicial Affairs oversees the review of conduct issues, involving both students and student organizations, as set forth by the Arizona Board of Regents *Student Code of Conduct*. This code is designed to balance the rights and needs of the individual with the responsibility of the individual to meet the needs of the community. Outreach and education are provided to students, faculty, and staff in areas such as student rights and responsibilities, campus and community standards, and university policies. Referrals for student conduct issues are accepted from faculty, staff, students, or observers. The Student Judicial Affairs designee reviews all referrals. Students who are found to have violated the *Student Code of Conduct* are subject to appropriate sanctions for student misconduct. Student Judicial Affairs is located in the Office of Student Life, SSV 263. For more information, call 480/965-6547, or access the Web site at [www.asu.edu/studentlife/judicial](http://www.asu.edu/studentlife/judicial).

**Student Risk Management.** Student Risk Management serves the ASU community by providing education resources to develop a safe and productive environment and encourage effective decision making.

For more information, call 480/965-6547, or access the Web site at [www.asu.edu/studentlife/risk](http://www.asu.edu/studentlife/risk).

**Upward Bound Program.** Upward Bound is a college preparatory program designed to increase the academic skills and motivational levels of participants (low-income, potential first-generation college students) to encourage their completion of high school, as well as enrollment in and graduation from postsecondary institutions. The year-round program includes summer residential components funded by the U.S. Department of Education. The Upward Bound Program office is located in SSV 276. For more information, call 480/965-6483, or access the Web site at [www.asu.edu/studentlife/ub](http://www.asu.edu/studentlife/ub).

**Veterans Upward Bound.** This program is designed for low-income, first-generation veterans who wish to pursue postsecondary education but whose life experiences did not adequately prepare them for the educational requirements of today. College preparation instruction in writing, reading, mathematics, general science, study skills, and computer literacy are provided to suit each veteran's individual needs. Veterans lacking a high school diploma can also prepare for obtaining their General Education Development (GED) while participating in Veterans Upward Bound. Interest inventory assessments and career advising are also available. All services are free, funded by the U.S. Department of Education. The Veterans Upward Bound office is located at 1000 East Apache Blvd., Suite 106, in Tempe. For more information, call 480/965-3944, or access the Web site at [www.asu.edu/studentlife/vub](http://www.asu.edu/studentlife/vub).

### COUNSELING AND CONSULTATION

**Services.** Counseling and Consultation offers a range of confidential, time-limited counseling and psychiatric services for ASU students. Staff members are available to discuss any important personal concern a student may be facing, particularly issues related to the adjustment to university life. Professional help in the following areas is available: psychological issues, personal concerns, interpersonal issues, and crisis intervention. Counseling and Consultation staff members have a strong commitment to meeting the needs of students of color and nontraditional students. Counseling and Consultation staff consists of both male and female mental health professionals, including psychologists, counselors, psychiatric providers, and social workers. Students are initially seen by an individual counselor for assessment. Continuing services in the form of individual, couples, or group meetings are then offered on a time-limited basis depending upon the student's need and staff availability. Limited psychiatric services are available, if needed, for students receiving counseling.

Counseling and Consultation offers counseling groups on topics such as women's and men's issues, eating disorders, substance abuse, stress management, multicultural/diversity issues, and interpersonal relationships. Other services available to the ASU community include consultation and outreach programming.

**Crisis Intervention.** Crisis intervention for students experiencing mental health emergencies is available. During normal working hours, students may call and request same day appointments to discuss urgent situations. After office hours, EMPACT Suicide Prevention Center, Inc., is available for crisis consultation by calling 480/921-1006.

## STUDENT SERVICES

**Confidentiality.** Confidentiality is of utmost importance. Information about a student is not released without that student's written permission, except in the case of imminent danger to self or others, child/adult abuse, court order, or where otherwise required by law. Notations of counseling and psychiatric services are not a part of a student's academic record.

**Appointments.** ASU students may schedule an initial counseling appointment either by phone (480/965-6146) or in person at SSV 334. There is no cost for the initial personal consultation. Fees are charged for additional sessions, career testing, and psychiatric services. Fee reductions and waivers are available. Office hours are 8 A.M. to 5 P.M. Monday through Friday. Counseling and Consultation is located at SSV 334. Additional information is available on the Counseling and Consultation Web site at [www.asu.edu/counseling\\_center](http://www.asu.edu/counseling_center).

For information about counseling services at the East campus, call 480/727-1255; at the West campus, call 602/543-8124.

**Training Programs.** Counseling and Consultation provides training for psychologists and other mental health professionals through postdoctoral, internship, residency, and practicum training programs.

**Testing Support Services.** Testing Support Services (TSS) offers courses to help students prepare for the following graduate entrance exams: the Graduate Record Exam (GRE), the Graduate Management Admissions Test (GMAT), and the Law School Admission Test (LSAT). Students may obtain information about test preparation workshops by phone (480/965-6777), in person, or from the TSS Web site at [www.vpsa.asu.edu/cc/tss\\_reg/student\\_testingsupport\\_information.asp](http://www.vpsa.asu.edu/cc/tss_reg/student_testingsupport_information.asp). The TSS office is located in SSV 340 and is open 9 A.M. to 6 P.M. Monday through Thursday and 9 A.M. to 5 P.M. Friday.

**Career Testing Services.** Counseling and Consultation offers two separate Exploration Workshops through Career Testing Services (CTS). Both Workshops are based upon well-established tests taken before attending each workshop. The Career Exploration Workshop focuses on career/major selection and uses the Strong Interest Inventory to help individuals find a major or career based upon interests. The Personal Styles Exploration Workshop focuses on personal style evaluation and uses the Myers Briggs Type Indicator to help individuals understand their personality preferences. Career testing is available to students and nonstudents. For more information about career testing workshop schedules and fees, call CTS at 480/965-6777, or access the Web site at [www.asu.edu/counseling\\_center/personaldev.html](http://www.asu.edu/counseling_center/personaldev.html).

## STUDENT HEALTH AND WELLNESS CENTER

**Services.** The Student Health and Wellness Center offers fully accredited outpatient health care to all students enrolled at ASU. The professional staff, consisting of physicians, nurse practitioners, registered nurses, dietitians, and health educators, has special interest and training in college health care. Consultant physicians in dermatology, orthope-

dics, and other specialties are on-site and are available by referral from a member of the Student Health and Wellness Center professional staff.

Additional services include comprehensive women's health care, immunizations, a travel clinic, and an allergy clinic for students needing periodic injections. The pharmacy at the Student Health and Wellness Center provides many prescription and over-the-counter medications at reasonable costs. Radiology and laboratory services are also available.

A parental "consent to treat" form is required before a student under 18 can receive treatment at the Student Health and Wellness Center. A copy of the parental consent form may be obtained from the Student Health and Wellness Center's Web site at [www.asu.edu/health](http://www.asu.edu/health).

For information about student health services at the East campus, call 480/727-1041, and at the West campus, call 602/543-8019.

**Health Promotion.** The Student Health and Wellness Center provides educational programs on nutrition, stress management, alcohol and other drug use and abuse, sexuality, and sexually transmitted diseases, including the Human Immunodeficiency Virus (HIV). Peer education programs provide students an opportunity to gain experience in health education and to enhance presentation skills. Services and educational brochures are available at the Student Health and Wellness Center and at other locations on campus.

**Hours.** Students are strongly encouraged to schedule appointments to minimize waiting time and to allow students the opportunity to establish a relationship with one clinician. Appointments are available by calling 480/965-3349. Patients with urgent health care problems may be seen at the Student Health and Wellness Center's Acute Care Clinic on a same-day basis. The clinic is open weekdays from 9 A.M. to 5:30 P.M.

**Fees.** Full-time students are charged for primary care visits at the Student Health and Wellness Center and for consultant visits, radiological procedures, laboratory procedures, medications, certain special or surgical procedures, and certain health education services. Patients receiving medical treatment off campus, such as consultations, emergency care, and hospitalization, are responsible for any resulting charges.

**Insurance.** *While the Student Health and Wellness Center provides comprehensive ambulatory care, it is not a substitute for health insurance.* Medical insurance coverage is strongly recommended for all students and is required for international students. Eligible students and dependents may enroll in health insurance coverage arranged by ASU. Dependents must complete an application and may require underwriting approval by the insurance carrier. The coverage assists students in paying for laboratory and radiology procedures, off-campus consultations, hospitalization, surgery, and emergency and after-hours care. Students may purchase health insurance through SunDial, the ASU touch-tone telephone registration system, or at Student Health. For more information, call the Student Health and Wellness Center's insurance office at 480/965-2411.

**Bridge Discount Program.** This discount program reduces the total health care costs for certain services rendered at the Student Health and Wellness Center. Students enrolled in this program are charged co-payments for specialist visits, basic x-rays, and laboratory tests. More information is available on the Web site at [www.asu.edu/health](http://www.asu.edu/health), or by calling 480/965-2411.

## STUDENT MEDIA

Student Media offers the largest combined news products for the university, produced completely by student employees and volunteers.

The *State Press* campus newspaper, one of the largest daily newspapers in Arizona, is published five days a week by ASU students who make editorial decisions with the support of experienced university staff. It is distributed free of charge on the East, West, and Tempe campuses, and in downtown Tempe.

*The ASU Web Devil* is Student Media's online news center and community guide, with local news and listings of restaurants, hotels, apartments, transportation, campus maps, and interesting cultural and entertainment opportunities within the community surrounding ASU. Access the Web site at [www.asuwebdevil.com](http://www.asuwebdevil.com).

Sun Devil Television (SDTV) broadcasts on Channel 2 to ASU residence halls, Greek housing, the Towers apartment building, the Memorial Union, the Student Recreation Center, and various departments that utilize the university cable system. Student employees and volunteers produce several news and entertainment programs a day. Music videos and premium movies are also aired nightly.

All of these products provide students with on-the-job training in newswriting, photography, editing, broadcast reporting and production, online reporting, design, and advertising. They also address the many informational needs of the university community, not only through stories about the campus and local and national events, but through paid classified and display advertisements by area merchants, campus groups, and university faculty, students, and staff.

Student Media provides complete prepress services, including graphics and design, to the university community. For more information, call 480/965-7572.

## CAREER SERVICES

Career Services provides advising for individual career planning concerns and offers information about numerous career fields and opportunities. Students are encouraged to use the Career Education Center throughout their academic careers. An online career planning system assists students in evaluating and making career choices. Career Services offers workshops and classroom presentations on career planning, interviewing skills, résumé writing, and a myriad of additional career-related topics. Advisors are available to assist students on an individual basis in career planning and employment.

Hundreds of employers from business, industry, government, social service agencies, health organizations, and educational institutions come to ASU to interview students seeking permanent positions and career-related summer,

intern, and co-op employment. Career Services facilitates these interviews for both employers and students to meet each group's needs and interests. In addition, career and job fairs are scheduled throughout the year.

The agency's services support students' career development throughout their college experience, and Career Services encourages participation in programs as early as the student's freshman year. The Tempe campus office is located in SSV 329. For more information, call 480/965-2350.

East campus students may visit the Career Preparation Center, call 480/727-1041, or access the Web site at [www.east.asu.edu/students/career](http://www.east.asu.edu/students/career).

## STUDENT RECREATION COMPLEX AND RECREATIONAL SPORTS

The Student Recreation Complex (SRC) is the place to become involved and meet people with similar interests in an active lifestyle. Opportunities for involvement are plentiful, as Student Affairs' Recreational Sports is one of the largest programs of its kind in the country, serving more than 27,000 students annually. Programs offered include intramural sports, informal recreation, fitness, aquatic and sports skills classes, outdoor recreation, children and family programs, sport clubs, adaptive recreation for individuals with long- or short-term disabilities, a wellness program, safety education, experiential learning, and special events.

A variety of student employment opportunities, with flexible work schedules, are available at the SRC. Student positions include: facility managers, lifeguards, weight room supervisors, equipment room attendants, administrative assistants, personal trainers, group fitness instructors, outdoor trip leaders, Web developers, graphic designers, and front desk monitors.

Located on the south end of Palm Walk, the SRC is one of the finest student recreation facilities in the United States. Features include a variety of resistance and cardiorespiratory equipment, a 9,000 square-foot weight room, three large gymnasiums, 14 indoor racquetball courts, one squash court, martial arts, aerobics and sport club rooms, outdoor equipment rental, and adaptive weight equipment. Outdoor facilities include a lighted, multiuse complex with four fields, a .43-mile perimeter walking and jogging path, four sand volleyball courts, 14 tennis courts, and a 70-meter swimming pool with two movable bulkheads that allow the pool to be divided into three parts for simultaneous multiuse programming. All Tempe campus students are automatic members and can use the SRC for drop-in use. East campus and West campus students can pay a student membership fee to use the SRC facility.

For more information, call 480/965-8900, stop by for a tour, or access the Web site at [www.asu.edu/src](http://www.asu.edu/src).

## ARIZONA PREVENTION RESOURCE CENTER

The Arizona Prevention Resource Center (APRC) is a partnership among ASU, the Governor's Office for Substance Abuse Prevention, the Arizona Department of Education, and the Arizona Department of Juvenile Corrections.

The APRC serves as a centralized source for individuals, schools, and communities throughout Arizona to support,

## STUDENT SERVICES

enhance, and initiate programs focused on the prevention of the use of tobacco products and the use and abuse of alcohol and other drugs; gangs and violence; and other areas, such as health promotion, domestic violence, and dropout prevention. The APRC operates in the following program areas:

1. Clearinghouse—provides accurate, timely, and personalized prevention information and materials through an in-house library, access to national sources, and linkages between prevention programs in Arizona.
2. Training and Technical Assistance—provides high quality, responsive training and technical assistance for organizations and individuals undertaking prevention programs in local communities and schools; focus is on research-based (promising and proven) practices.
3. Evaluation and Accountability—coordinates and provides leadership for a statewide evaluation strategy for accountability in alcohol and other drug prevention and treatment programs; produces an annual inventory of substance abuse and gang prevention and treatment programs in Arizona; designs and conducts contracted evaluations of community-based prevention programs; and promotes accountability in all aspects of APRC operations.
4. Strategic Initiatives and Planning—promotes effective collaboration between prevention and treatment program leadership; broadens the funding base for prevention programs; researches and develops strategies for comprehensive statewide systems and accountability.

For more information, call 480/727-2772 or toll-free at 1-800-432-2772, access the Web site at [www.azprevention.org](http://www.azprevention.org), or write

ARIZONA PREVENTION RESOURCE CENTER  
ARIZONA STATE UNIVERSITY  
PO BOX 872208  
TEMPE AZ 85287-2208

Information can also be obtained by fax, at 480/727-5400, or at 542 East Monroe Street in Phoenix, Building D.

The Arizona Drug and Gang Prevention Resource Center (ADGPRC), located with the APRC, provides similar information and technical assistance for communities to help them focus strategically on drug and gang prevention issues.

The ADGPRC can be contacted at 480/727-5015 or toll-free at 1-888-432-2347, or access the Web site at [www.asu.edu/adgprc](http://www.asu.edu/adgprc).

## INTERCOLLEGIATE ATHLETICS

The university is a member of the National Collegiate Athletic Association, Division I, and the Pacific-10 Conference. The university has 22 varsity intercollegiate sports and more than 500 participants. Intercollegiate athletics at ASU are governed by a board of faculty, students, and staff under the regulations of the Arizona Board of Regents, the NCAA,

the Pacific-10 Conference, and the university. Policies are administered by Intercollegiate Athletics. All athletic grants-in-aid and scholarships are administered in coordination with Intercollegiate Athletics.

## RELIGIOUS ACTIVITIES

Various religious centers representing most major religious groups are available near the Tempe campus and provide students with opportunities to participate in programs of religious worship and to meet other students through social activities. For more information, call the Campus Interfaith Council at 480/965-3570.

## OTHER OPPORTUNITIES FOR STUDENT INVOLVEMENT

**Communication Activities: Performances.** Participants write, compile, and perform scripts for presentation in diverse on- and off-campus settings through the Hugh Downs School of Human Communication. For more information, call 480/965-5061.

**Dance.** The Department of Dance presents 12 to 14 faculty- and/or student-directed concerts a year. Interested students should attend open auditions, held at the start of each semester. Dance Arizona Repertory Theatre (DART) provides preprofessional experience in a contemporary modern dance model. Opportunities include working with community programs and nationally recognized artists, performing, and learning teaching methodologies. For more information, call 480/965-1891.

**Forensics.** The ASU Forensic squad, associated with Pi Kappa Delta national forensic honorary association, travels to trophy tournaments across the country. For more information, call the director of Forensics at 480/965-5095.

**KASC Radio.** At KASC, in the Walter Cronkite School of Journalism and Mass Communication, students work in programming, performance, news, production, promotion, sales, and management. The station, programmed entirely by students, offers a modern rock format as an alternative to other Valley radio stations. New music by national as well as local bands is the focus of the KASC format. The music is complemented by ASU news and sports features. For more information, access the Web site at [www.theblaze1260.com](http://www.theblaze1260.com).

**Music.** Performing organizations within the School of Music provide opportunities for involvement and credit, including bands, Lyric Opera Theatre, symphony orchestra, and choral organizations. For more information, call 480/965-3371.

**Theatre.** The Department of Theatre presents four to six faculty-directed productions and 10 to 15 student-directed productions a year. Auditions are open to all university students, regardless of major. Audition information is available from the Department of Theatre, GHALL 232, 480/965-5337. The department provides community outreach opportunities with schools and connections with local professional theatre companies.



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# Fees, Deposits, and Other Charges

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The Arizona Board of Regents reserves the right to change fees and charges without notice. The latest *Schedule of Classes* usually includes up-to-date amounts. The following fees apply to credit and noncredit (audit) registrations.

## DEFINITIONS

*Resident tuition* refers to the charge assessed to all resident students who register for classes at ASU. *Nonresident tuition* refers to the charge assessed to nonresident students, as established in Arizona Board of Regents' Policy 4-102.

## ACADEMIC YEAR TUITION

The resident and nonresident tuition for fall and spring semesters is shown in the "2004–2005 General University Tuition" table, page 54. The amounts listed are per semester hour each academic term. For more information on classification for fee status, see "Residency Classification Policies and Procedures," page 57.

Resident students registered for seven or more hours or nonresident students registered for 12 or more hours are considered full-time for tuition payment purposes. See "Enrollment Verification Guidelines," page 80.

*Note:* The rate for one hour is charged if the student is registered for only a zero-hour class.

**Program Fees.** Certain graduate and undergraduate programs assess an additional program fee. These fees differ according to college and/or program. Contact the program advisor for details on these fees.

**Summer Sessions Fees.** For summer sessions fees information, see the *Summer Sessions Bulletin*. The fees are per credit hour for credit or audit. See also "Summer Sessions," page 518.

## Tuition Installment Plan

The tuition installment plan offers students an option to divide fall and spring semester tuition payments over several months. Students may enroll in the tuition installment plan and reserve their classes over the phone using SunDial, on the Internet through ASU Interactive, in person, and by mail. Students must reenroll in the plan each semester.

All students are eligible to enroll in the plan after they register for classes, with the exception of students owing past-due charges. Enrollment in the plan is an available option through the end of the first week of classes. If students receiving financial aid choose to enroll in the plan, all tuition charges are paid by financial aid and any remaining financial aid is refunded to the student. Students with financial aid continue to have the option to hold their classes at no extra cost rather than enrolling in the plan.

Upon enrollment in the plan, tuition is billed in three installments on the Student Account Receivable System. For example, for the fall semester, the first billing statement

is mailed in early August, with tuition due on August 25, September 25, and October 25.

Students are charged a per semester administrative fee to cover costs associated with enrollment in the plan. The fee is billed on the Student Account Receivable System and is due at the same time as the first installment. The fee is non-refundable, even if students withdraw from classes. The per semester enrollment fee is \$75.

Once a student enrolls in the plan for a given semester, he or she is not withdrawn from classes during the current semester. Students must withdraw from classes if they decide not to attend. If students enrolled in the plan do not make scheduled payments, the students are prohibited from registering for classes in future semesters and are blocked from receiving university services, such as transcripts. Former students with outstanding tuition charges are referred to an outside collection agency.

## OTHER FEES, DEPOSITS, AND CHARGES

**Class Fees and Deposits.** Certain university classes require payment of fees or deposits for materials, breakage, and rentals. These fees and deposits are listed in the *Schedule of Classes* for each semester.

**Student Recreation Complex Fee.** All students (except university employees) must pay a mandatory Student Recreation Complex fee. Students enrolled for seven or more hours are charged \$25 per semester. Students registered for fewer than seven hours pay \$12 per semester, and summer students pay \$12 per session. See the latest *Schedule of Classes* for more information.

**Financial Aid Trust Fee.** All students must pay a financial aid trust fee. Students enrolled for seven or more hours are charged no more than 1 percent of the current tuition. The fee for students enrolled six or fewer hours is half that charged students enrolled for seven or more hours. The total summer sessions fee does not exceed the amount for a student enrolled for seven or more hours. Fees collected from students are matched by the State of Arizona and used to create the Arizona Student Financial Aid Trust Fund, from which Financial Aid Trust grants are awarded under the established Student Financial Assistance office's aid eligibility criteria.

**Arizona Students' Association (ASA) Fee.** The ASA is a nonprofit lobbying organization that represents Arizona's public university students to the Arizona Board of Regents, State Legislature, and U.S. Congress. In 1997, students at the state universities voted to change the mechanism for funding the ASA. A \$1 fee is charged to each student every semester. Any refunds for this fee are provided through the ASA Central Office.

## FEES, DEPOSITS, AND OTHER CHARGES

### 2004–2005 General University Tuition

Hours	Undergraduate Tuition		Postbaccalaureate Tuition <sup>1</sup>		Graduate Tuition	
	Resident <sup>2</sup>	Nonresident <sup>2</sup>	Resident <sup>2</sup>	Nonresident <sup>2</sup>	Resident <sup>2</sup>	Nonresident <sup>2</sup>
1	\$ 207.00	\$ 535.00	\$ 264.00	\$ 565.00	\$ 264.00	\$ 565.00
2	414.00	1,070.00	528.00	1,130.00	528.00	1,130.00
3	621.00	1,605.00	792.00	1,695.00	792.00	1,695.00
4	828.00	2,140.00	1,056.00	2,260.00	1,056.00	2,260.00
5	1,035.00	2,675.00	1,320.00	2,825.00	1,320.00	2,825.00
6	1,242.00	3,210.00	1,584.00	3,390.00	1,584.00	3,390.00
7	1,987.00	3,745.00	2,519.00	3,955.00	2,519.00	3,955.00
8	1,987.00	4,280.00	2,519.00	4,520.00	2,519.00	4,520.00
9	1,987.00	4,815.00	2,519.00	5,085.00	2,519.00	5,085.00
10	1,987.00	5,350.00	2,519.00	5,650.00	2,519.00	5,650.00
11	1,987.00	5,885.00	2,519.00	6,215.00	2,519.00	6,215.00
12 or more	1,987.00	6,414.00	2,519.00	6,779.00	2,519.00	6,779.00

<sup>1</sup> Postbaccalaureate students enrolled in an undergraduate degree program are billed at the undergraduate rate during 2004–2005. Starting fall 2005, all postbaccalaureate students will be billed at the postbaccalaureate rate.

<sup>2</sup> Tuition is subject to change. In addition to tuition, students are charged other fees (e.g., the Student Recreation Complex fee, financial aid trust fee, special class fees, and program fees).

**Late Registration.** The fee assessed for registrations on or after the first day of each session is \$50. A separate fee of \$35 is assessed on registration payments received after the fee payment deadline but processed before the class enrollment purge.

**Admission Application.** The nonrefundable fee for undergraduate applications is \$25 for residents and \$50 for non-residents.

**Transcripts.** The fee for an official transcript is \$10 per copy. "Rush" transcripts (requested to be printed and picked up on the same day) will cost \$10 in addition to the total cost of the transcripts ordered. Special delivery requests via Federal Express or U.S. Express Mail, instead of regular mail, will cost \$19.50 per delivery address, within the United States, in addition to the cost of the transcript(s). Special express deliveries to addresses outside the United States are available via international Federal Express or International Express Mail; these cost \$38. Express costs are in addition to the cost of the transcripts. For delivery details, students should contact the Registrar's Office. Fees are subject to change without notice.

Unofficial transcripts may be requested in person at the University Registrar's Office, by mail, or by fax at 480/965-2295 if a signed release is provided. There is no charge for an unofficial transcript. Also, students may view and print their own unofficial transcripts via the Web using ASU Interactive at [www.asu.edu/interactive](http://www.asu.edu/interactive).

For more information, see "Transcripts," page 84.

**Copies of Education Records Other Than ASU Transcripts.** For fewer than six pages, there is no charge. For six to 10 pages, the total charge is \$2. For 11 to 15 pages, the total charge is \$3. Copies of additional pages cost \$1 for every five pages copied.

**Comprehensive Examination.** This fee is paid by all students seeking to establish credit by examination and is \$50 per semester hour.

**Private Music Instruction.** The fee for one-half hour of instruction weekly is \$60. The fee for one hour of instruction weekly is \$100.

**Musical Instrument Rental Charge.** The charge for use of university-owned musical instruments is \$25 per semester. Consult the School of Music for specific information.

**Binding and Microfilm Fees.** The binding fee for a thesis or dissertation is \$17 per copy. This fee is subject to change. Additional charges may be required depending on the size and nature of the document. The dissertation microfilming fee is \$55 and is subject to change.

**Sun Card/ID Card.** The fee is \$25.

**Parking Decals.** A parking decal must be purchased, in person or by using the SunDial touch-tone telephone system, 480/350-1500, for motor vehicles parked on campus except in areas where metered parking or visitor lots are available. Photo identification is required. Decals are sold on a first-come, first-served basis. For more decal sales information, call 480/965-6124, or visit the Web site at [www.asu.edu/dps/pts](http://www.asu.edu/dps/pts).

Each vehicle registered at ASU Parking and Transit Services must comply with Arizona emission standards (A.R.S. § 15-1627G) during the entire registration period. The fee for this emission inspection is \$27 per vehicle.

Everyone is encouraged to support travel reduction measures by carpooling, bicycling, walking, or using mass transit or the university shuttle bus whenever possible.

**Parking Violations.** Due to a high demand for parking, regulations are strictly enforced. Fines range from \$10 to \$100. Appeals to parking citations may be filed within 14 calendar days to Parking and Transit Services and, after payment, may be further appealed to the Parking Citation Appeals Board. Unpaid parking citations are delinquent financial obligations subject to the provisions of the "Delinquent Financial Obligations," page 56. The vehicle of any person owing three or more unpaid parking citations or \$100 in unpaid parking citations is subject to impoundment. An \$85 minimum fee is assessed if impoundment is required. For more information, call 480/965-4527.

**Returned Checks.** Checks returned by a bank are assessed a \$15 service charge with repayment needed within five business days of notification. A second \$12 service charge is made if the returned check is not repaid within this five-day period. Repayment of a returned check must typically be in cash.

ASU may have arrangements with its bank to redeposit automatically for a second time checks for which there are insufficient funds. No service charge is assessed by ASU until a check is returned to ASU; however, the payer may be assessed a service charge by the payer's financial institution.

Students paying fees with a check that is subsequently not honored by a financial institution are subject to involuntary withdrawal from the university if repayment is not made. All students involuntarily withdrawn are charged according to the standard refund schedule as of the involuntary withdrawal date, as determined by the university.

**Campus Housing.** The cost of the Tempe campus housing varies. In 2004–2005 the typical cost for undergraduate students was \$3,600 per academic year. Meal plans are purchased separately. For more information, see "Residential Life," page 45, or call 480/965-3515.

### TRANSPORTATION

To reduce air pollution and traffic congestion, students are encouraged to travel to and from campus by means other than automobile and to reduce transportation needs through careful class scheduling. Nearby on-campus parking is limited and tightly controlled.

Alternative transportation modes are used by thousands of ASU students. ASU is served by a regional transit service; monthly and reduced-fare semester passes are available on campus. In addition, an inexpensive express shuttle runs between the Tempe campus and the West campus in northwest Phoenix; another shuttle runs among the Tempe campus, Mesa Community College, and the East campus in Mesa; and a Free Local Area Shuttle (FLASH) is available around the periphery of the Tempe campus. A free Neighborhood FLASH also is available for the Tempe campus community connecting the Escalante and University Heights neighborhoods with the Riverside/Sunset and Lindon Park neighborhoods through downtown Tempe and the Tempe campus.

Bicycle ridership at ASU is estimated to be more than 15,000 students daily. Ample racks in many locations enable

the parking and securing of bicycles. Bicycle use is restricted only in those areas of campus where pedestrian traffic is sufficiently heavy to make such use a hazard. The Bike Co-op Repair Service provides assistance with bicycle maintenance.

For more information on commute alternatives, call the Travel Reduction Office at 480/965-1072.

### PAYMENT METHODS AND DEADLINES

**SunDial and ASU Interactive.** The SunDial telephone system at 480/350-1500, and ASU Interactive, on the Web at [www.asu.edu/interactive](http://www.asu.edu/interactive), are the preferred methods for accessing tuition services. Students may enroll in the tuition installment plan, hold classes with financial aid, and make fee payments via the Web. For more information, refer to the *Schedule of Classes* or the Student Business Services Web site at [www.asu.edu/sbs](http://www.asu.edu/sbs).

**Credit Cards.** See the *Schedule of Classes* or the Student Business Services Web site at [www.asu.edu/sbs](http://www.asu.edu/sbs) for information about paying by credit card.

**Checks.** Checks payable for the exact amount of charges and without a restrictive endorsement are generally acceptable, except for students on check-use suspension due to a previously returned check.

**Veterans Deferred Payment.** The Veterans Readjustment Assistance Act allows veterans to apply for deferred payment of fees, books, materials, and supplies required for courses. To assist eligible students, a Veterans Deferment Request Form may be issued deferring payment during their first semester of benefits. Visit the Veterans Services section at SSV 148, or call 480/965-7723 for information on meeting the requirements. ASU may deny this privilege if the student has had previous delinquent obligations.

**Payment Deadlines.** Fees must be paid by the deadline dates and times indicated or the registration is voided. A fee payment deadline is printed on all Schedule/Billing Statements, which may be obtained at the University Registrar's Record Information counter at the Tempe campus, Records and Registration at the West campus, Registration Services at the East campus, or via the Web at [www.asu.edu/interactive](http://www.asu.edu/interactive), and in the *Schedule of Classes*.

### REFUNDS

**Academic Year Resident and Nonresident Tuition.** Students withdrawing from school or individual classes receive a refund as described in the "Fall and Spring Withdrawal Refunds" table, page 56.

The university provides a prorated refund for first-time students receiving financial aid; therefore, the refund schedule is the minimum amount refundable to these students.

Withdrawal occurs on the calendar day that withdrawal is requested, either in person at a registrar site or by phone using SunDial. Students withdrawing for medical or other extenuating circumstances must contact their college for refunds that may be available under these circumstances.

## FEES, DEPOSITS, AND OTHER CHARGES

### Fall and Spring Withdrawal Refunds

Withdrawal Date	Refund
Before first day of the semester	100%*
One through 7 calendar days	80%
8 through 14 calendar days	60%
15 through 21 calendar days	40%
22 through 28 calendar days	20%
After the 28th calendar day	No refund

\* A \$35 processing fee is subtracted per session.

**Summer Sessions Fees.** Students withdrawing from any summer session or individual classes receive a refund as described in the "Summer Sessions Withdrawal Refunds" table below. *Refunds are based on the session days and not the class meeting dates for any particular class.*

### Summer Sessions Withdrawal Refunds

Withdrawal Date	Refund
Before first day of session	100%*
First and second days of session	80%
Third day of session	60%
Fourth day of session	40%
Fifth day of session	20%
After fifth day of session	No refund

\* A \$35 processing fee is subtracted per session.

**Class Fees and Deposits.** After the first week of classes, refunds, if any, are determined only by the department or school offering the course. Refund determination is based on withdrawal date, type of activity, and costs already assessed by the department or school.

**Private Music Instruction.** If a student must drop a music course because of illness or other emergency beyond the student's control, not more than half of the instruction charge may be refunded, as determined by the School of Music.

**Late Registration.** This fee is not refundable.

**Student Recreation Complex Fee.** This fee is refundable only upon complete withdrawal, in percentage increments per the refund schedule. Upon withdrawal, access to the SRC is terminated.

**Financial Aid Trust Fee.** This fee is not refundable.

**Official Transcripts.** Overpayments by mail of \$5 or less are refunded only by specific request.

**Graduation Fee.** Overpayments by mail of \$5 or less are refunded only by specific request.

**Residence Halls.** Refunds to students departing from the Tempe campus residence halls before the end of the academic year are computed as prescribed by the Residential Life License Agreement that students sign when they apply for residence hall accommodations. Students should refer to

the Residential Life Schedule of Charges and Deadlines for specific information on refunds.

**Other University Charges.** Other university charges are normally not refundable, except for individual circumstances.

**Payment of Refunds.** Refunds require student identification and are made payable only to the student for the net amounts due the university. When the last day of a refund period falls on a weekend or holiday, a withdrawal form must be submitted to one of the registrar sites during operating hours on the workday preceding the weekend or holiday. Refunds are normally paid by check, payable to the student, and mailed to the student's local address, or by direct deposit to the student's bank account.

**Parking Decal Refunds.** Prorated refunds are available through the last business day in April.

**Forfeiture of Refunds.** Refunds are subject to forfeiture unless obtained within 90 days of the last class day of the semester for which the fees were originally paid.

## DELINQUENT FINANCIAL OBLIGATIONS

Arizona Board of Regents' Policy 4-103B, which applies to ASU, states the following:

1. Each university shall establish procedures to collect outstanding obligations owed by students and former students.
2. Each university shall maintain a system to record all delinquent financial obligations owed to that university by students and former students.
3. Students with delinquent obligations shall not be allowed to register for classes, purchase parking decals, receive cash refunds, or obtain transcripts, diplomas, or certificates of program completion. The university may allow students to register for classes, obtain transcripts, diplomas, or certificates of program completion if the delinquent obligation is \$25 or less.
4. Unpaid obligations shall remain a matter of record until students and former students satisfy their financial obligations or until satisfactory arrangements for repayment are made with the university.
5. The university may write off delinquent financial obligations of students according to accepted accounting principles and after appropriate collection efforts. No such write-off shall operate to relieve the student of liability for the obligation nor shall such write-off entitle the student to release of any transcripts, diplomas, certificates of program completion, or to register for further university classes until such obligation is actually paid.
6. Each university shall include this policy in its bulletin or catalog.

A late charge of \$15 is assessed for balances due the university between \$20 and \$100 not paid within 30 days of the initial due date. Three additional \$15 late charges are

assessed at 60, 90, and 120 days past due. Following the same late charge assessment schedule (of 30, 60, 90, and 120 days past due), the fee for past due balances between \$100 and \$1,000 is \$25 and for past due balances in excess of \$1,000 is \$50.

### RESIDENCY CLASSIFICATION POLICIES AND PROCEDURES

The Arizona Board of Regents is required by law to establish uniform guidelines and criteria for classifying students' residency to determine those students who must pay nonresident tuition. The following is a summary of the general guidelines used to determine residency for tuition purposes. All of the evidence is weighed under the presumption that a nonresident student's presence in Arizona is primarily for the purpose of education and not to establish domicile and that decisions of an individual about the intent to establish domicile are generally made after the completion of an education and not before.

To obtain resident status for tuition purposes, independent students must establish their residence in Arizona at least one year before the last day of regular registration for the semester in which they propose to attend ASU. Arizona residence is generally established when individuals are

physically present in the state with the intention of making Arizona their permanent home.

Mere physical presence in Arizona for one year does not automatically establish residency for tuition purposes. Adult students and emancipated minors must combine physical presence in Arizona for one year with objective evidence of their intent to make Arizona their permanent home. If these steps are delayed, the one-year period is extended until both presence and intent have been demonstrated for one full year. In addition to physical presence and intent, the student must demonstrate financial independence for the two tax years immediately preceding the request for resident classification. The student must demonstrate objective evidence of self-support and that he or she was not claimed as an income tax deduction by his or her parents or any other individual for two years. An adult student is defined as being at least 18 years of age at the beginning of the domicile year. For a complete definition of an emancipated minor, refer to the Arizona Board of Regents' residency classification policies, available in the Residency Classification section, SSV 146.

No person is considered to have gained or lost resident status merely by attending an out-of-state educational institution.



The final 2004 Presidential Debate, held in Gammage Auditorium October 13, focused national media attention on Tempe campus and gave students a firsthand opportunity to participate in the process.

Jessica Slater photo

## FEES, DEPOSITS, AND OTHER CHARGES

**Aliens.** Students who are aliens are subject to the same requirements for resident status as are U.S. citizens. In establishing domicile, aliens must not hold a visa that prohibits establishing domicile in Arizona.

**Refugees.** Refugees may qualify as resident students by virtue of having been granted refugee status in accordance with all applicable laws of the United States and having met all other requirements for residence in Arizona.

### Exceptions to the General Residency Rule

Students may be eligible for resident status for tuition purposes if they can meet one of the following criteria on or before the last day of regular registration.

**Legal Dependents.** If a student and his or her parents are domiciled in Arizona and have not met the one-year residency requirement but the parents are entitled to claim the student as a dependent for federal and state tax purposes, the student may be eligible for resident status for tuition purposes.

**Transferred Employees.** If students are domiciled in Arizona and have not met the one-year residency requirement but are employees or spouses of employees who have been transferred to Arizona by their employers for employment purposes, the students may be eligible for resident status for tuition purposes.

**Members of the Military.** If students are not domiciled in Arizona but are members of the U.S. Armed Forces stationed in Arizona or are the spouses or dependent children of a member (as defined in A.R.S. § 43-1001), the students may be eligible for resident status for tuition purposes. If military service is concluded while enrolled, students do not lose resident status while they are continuously enrolled in a degree program. If individuals are domiciled in Arizona immediately before becoming members of the U.S. Armed Forces, they do not lose resident status because of their absence while on active duty with the military as long as they maintain Arizona affiliations and file Arizona state tax.

A student who is a member of an Arizona National Guard or Arizona Reserve unit may be eligible for resident status for tuition purposes. A student may also be eligible if he or she has been honorably discharged from the armed forces of the United States, has declared Arizona as his or her legal residence one year before discharge, and has taken the other appropriate actions, including filing an Arizona income tax return. A student who is the spouse or dependent of a member of the armed forces who has claimed Arizona as his or her legal residence and filed Arizona income tax for one

year before enrollment may be eligible for resident status for tuition purposes.

**Teachers and Classroom Aides.** If a student is under contract to teach on a full-time basis or is employed as a full-time non-certified classroom aide at a school within a school district, the student is eligible to pay resident tuition only for courses necessary to complete the requirements for certification by the State Board of Education.

**Native Americans.** Students who are members of a Native American tribe whose reservation lies both in Arizona and an adjacent state and who are residents of that reservation may be eligible for resident status for tuition purposes.

### Procedures for Establishing Resident Status

All students are responsible for obtaining residency classification for tuition purposes before registering and paying their fees. This procedure requires students to complete and file an Arizona residency information form. This form is required of all new and returning students as part of the admission or readmission process. Students classified as nonresidents who believe they may qualify for resident status must file a petition with the Residency Classification section. This petition must be filed by the last day of regular registration. A student seeking resident status must also file supporting documentation necessary to provide a basis for residency classification (source[s] of support, driver's license, voter's registration, vehicle registration, etc.). Students whose residency petitions are in process at the fee payment deadline are responsible for paying nonresident tuition. However, an appropriate refund is issued if resident status is later granted for that semester.

Any student found to have made a false or misleading statement concerning resident status is subject to dismissal from the university.

Failure to file a timely written petition for reclassification of resident status for tuition purposes constitutes a waiver of the student's right to apply for the given semester. Petition deadlines are published each semester in the *Schedule of Classes*. Extensions to the deadlines are not permitted.

Residency classification is an extremely complex issue. The information presented here is a summary and does not address each individual's situation; therefore, students are encouraged to make a personal visit to the Residency Classification section to discuss their individual circumstances as soon as possible. Guidelines for determination of residency for tuition purposes are subject to review and change without notice. For more information, call the Residency Classification section at 480/965-7712, or access the Web site at [www.asu.edu/registrar/residency](http://www.asu.edu/registrar/residency).

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# Financial Aid

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The primary responsibility for financing a college education belongs to students and their families (see the "2004–2005 Typical Undergraduate Student Budgets" table, page 60). The Student Financial Assistance Office helps students, within the limits of available funds, meet college costs. Financial assistance is available as scholarships, grants, loans, and employment. This aid has been made available collectively by the university, alumni, private foundations, civic groups, individuals, and state and federal governments.

To be considered for financial aid, all students must complete the Free Application for Federal Student Aid (FAFSA). This application should be completed in January or early February preceding the academic year the student anticipates attending ASU. The priority date for applying is February 15. Applications completed after this date are processed; however, they are considered late applications. Late applicants are less likely to receive federal work-study, grants, and scholarships due to funding limitations.

Additional documentation may be requested to verify application data. Students receive an award notification once their file is complete. Applicants should read carefully all correspondence received.

Students receiving aid are required to meet minimum standards of satisfactory academic progress. In addition to maintaining the minimum GPA defined for good academic standing, students must complete their degree within the maximum allowable hours and maintain a satisfactory completion rate. Failure to meet these standards results in the suspension of aid for subsequent semesters.

Students can access personal information regarding financial aid through the SunDial phone system at 480/350-1500 or by accessing ASU Interactive at [www.asu.edu/interactive](http://www.asu.edu/interactive). Students can access the following information:

- (1) documents still needed to complete a financial aid file;
- and (2) award information.

Documents needed to complete the aid file can be printed from the Student Financial Assistance Web site at [www.asu.edu/fa](http://www.asu.edu/fa).

## TYPES OF FINANCIAL AID AND MAJOR PROGRAMS

ASU students receive financial aid resources totaling more than \$273 million. There are four categories of financial aid: scholarships, grants, loans, and employment.

### Scholarships

There are two sources of scholarships at ASU: university-funded scholarships and private donor scholarships. Many scholarships are offered on the basis of academic merit. However, financial need criteria may also be included in the selection of recipients. Other considerations are GPA, leadership qualities, and community service.

The Scholarship Office coordinates all scholarship programs. High school students should contact their high

school counselors or visit the scholarship Web site at [www.asu.edu/fa/scholarships](http://www.asu.edu/fa/scholarships) to determine the appropriate process for obtaining a variety of scholarships available to entering freshmen. Other undergraduate students may contact the Scholarship Office or search the Web site for available scholarships. In addition, many academic units provide scholarship funding and select students based on a variety of criteria, which include artistic talent, musical ability, and athletic performance. Students seeking these scholarships should contact the appropriate academic unit directly.

**Educational Tax Credits.** Students may be eligible for either the Hope Scholarship Credit or the Lifetime Learning tax credit. Additional information about these tax credits is available on the Web at [www.asu.edu/sbs](http://www.asu.edu/sbs).

Consult a personal tax advisor about qualifications for the Hope Scholarship Credit, and Lifetime Learning tax credit.

**Private Donor Scholarships.** Most of these scholarship funds are provided by employers, private individuals, organizations, and corporations. In most cases, the private donor specifies the criteria used by the Scholarship Office to identify candidates for a particular scholarship.

**University Scholarships.** ASU enrolls the best students from Arizona and the nation and awards scholarships to top students based on their high school performance. High school students are automatically considered for merit-based institutional recruitment scholarships upon their admission to ASU. Additionally, academic departments offer scholarships based on particular disciplines. Access [www.asu.edu/fa/scholarships](http://www.asu.edu/fa/scholarships) for a comprehensive search of scholarships for ASU students.

### Grants

Grants are gift assistance from the federal government, the state, or the university that do not have to be repaid.

**Federal Pell Grant.** Funded by the federal government, the Pell Grant is awarded to students who demonstrate significant financial need. Pell Grant eligibility is determined by the U.S. Department of Education. All students are informed of their eligibility for the grant through the Student Aid Report. The maximum award for the 2004–2005 academic year was \$4,050 per individual student.

### Federal Supplemental Educational Opportunity Grant.

The Supplemental Educational Opportunity Grant (SEOG) is a federally funded, campus-based program. A limited amount of funding is available through the program. The amount received will depend upon a student's financial need, the amount of other assistance awarded, and the availability of funds. Maximum grant awards for 2004–2005 were \$1,000 per individual student.



2004–2005 Typical Undergraduate Student Budgets

Item	Dependent		Independent
	At-Home	On/Off Campus	On/Off Campus
Room	\$ 1,120	\$ 4,178	\$ 5,714
Board	1,200	2,396	2,396
Personal/miscellaneous	2,526	2,526	3,236
Transportation	1,200	1,200	1,444
Books/supplies	838	838	838
Total living <sup>1</sup>	\$ 6,884	\$ 11,138	\$ 13,628
Resident tuition	\$ 3,973	\$ 3,973	\$ 3,973
Special fees	91	91	91
Resident total	\$ 10,948	\$ 15,202	\$ 17,692
Nonresident tuition <sup>2</sup>		\$ 12,828	\$ 12,828
Special fees		91	91
Nonresident total		\$ 24,057	\$ 26,547

<sup>1</sup> Loan fees are not included in this amount. Total living expense items are estimates. Amounts vary based on personal choice.

<sup>2</sup> Amounts of nonresident tuition are shown in the "2004–2005 General University Tuition" table, page 54.

**Leveraging Educational Assistance Partnership (LEAP).** This is a three-partner program of federal, state, and university funding. Students with high financial need may receive this particular form of funding. It is restricted to residents of Arizona. The maximum grant for 2004–2005 was \$1,500 per individual student.

**Financial Aid Trust Grant.** Provided in partnership between ASU students and the state legislature, these funds are provided primarily to resident, undergraduate or under-represented students with high financial need. The maximum grant for 2004–2005 was \$2,000 per individual student.

**University and ASU Grants.** University grants are generally reserved as the last grant programs used to resolve a student's need. Funded by the university, these grants are available for both resident and non-resident students. The maximum grant awards for 2004–2005 were \$2,000 per individual student.

### Loans

Loans are forms of financial assistance available from sources such as the federal government and private lenders that must be repaid and will include any accrued interest.

**Stafford Student Loans.** The federal government loans money to students based on the university's determination of the student's financial need and cost of education. Repayment begins after the student graduates, leaves school, or drops below half-time enrollment. There are two Stafford Loan types: subsidized and unsubsidized. With a subsidized Stafford, the federal government pays the interest on the loan principal during the student's in-school status, grace, and other authorized periods of deferment.

The school may determine that the student is eligible for an unsubsidized Stafford Loan. In this program, the federal government does not pay the interest during the student's in-

school status, grace, or other authorized periods of deferment. As the student proceeds through school, interest will accrue and will be added to the principal once the student enters repayment. Otherwise, conditions and terms for the two programs are the same.

The variable interest rate is adjusted every July 1. The rate cannot exceed 8.25 percent. In addition, there is a 3 percent loan origination fee deducted from each disbursement. The federal government provides several options for repayment once the student has left school. For students who are considered dependent based on their financial aid application, the following total annual loan limits for subsidized and unsubsidized loans apply: freshmen may borrow up to \$2,625 per year; sophomores, up to \$3,500 per year; and juniors and seniors, up to \$5,500 per year. For students who are considered independent, the following annual loan limits apply: freshmen may borrow up to \$6,625, of which only \$2,625 can be subsidized; sophomores, up to \$7,500, of which only \$3,500 can be subsidized; and juniors and seniors, up to \$10,500, of which only \$5,500 can be subsidized.

**Federal Perkins Loan.** The Federal Perkins Loan program is funded by the federal government and is awarded based on financial need. The school is the actual lender, and repayments after graduation are made to the university at a 5 percent interest rate. Like the subsidized Stafford Loan, no interest accrues on the Perkins Loan during the student's in-school status, grace, or other authorized periods of deferment. If funding is available, deferment and cancellation provisions may apply to graduates working in community service, qualifying law enforcement, and teaching occupations. Maximum undergraduate awards for 2004–2005 were \$3,000 per individual student.

**Parent Loan for Undergraduate Students.** Under the Parent Loan for Undergraduate Students (PLUS) Program,



parents may borrow money from the federal government on behalf of their dependent students. With this loan, interest is not deferred and repayment begins within 60 days of the final disbursement for the enrollment period. The PLUS approval is based on the parents' credit history. There is a variable interest rate adjusted every July 1 that cannot exceed 9 percent. The maximum loan amount is determined by subtracting all other financial aid from the student's cost of education. If parents are determined ineligible for a PLUS and students need additional funds, they should contact the Student Financial Assistance office to determine their eligibility for an unsubsidized Stafford Loan.

### Employment

The Student Employment Office provides employment opportunities to students who must work to meet educational expenses or who wish to work because they feel the experience can be a valuable part of their education. Federal Work-Study and hourly positions are available. For more information, access [www.asu.edu/fa/studemp](http://www.asu.edu/fa/studemp) on the Web.

**Federal Work-Study.** The Federal Work-Study program encourages community service work and jobs that complement and reinforce educational or career goals. Funds for this program are provided on a matching basis by the federal government and ASU. Students employed under this program receive the same pay rates as other students being employed on campus. In this program, students must demonstrate a financial need as established through completion of the Free Application for Federal Student Aid.

**University Hourly.** ASU, with its own resources, hires many students on a part-time basis. Although the jobs are

similar to those under the Federal Work-Study Program, the university provides the entire amount of the student's wage.

**Part-Time Off-Campus.** The university receives requests for assistance from many agencies and companies throughout the area to help them recruit and hire students on a part-time basis. This job listing service provides opportunities for students not only to earn funds to support their education, but to gain experience in the areas of their majors or career interests.

### Taxability of Financial Aid Programs

Scholarships, grants, fellowships, and stipends (but not loan funds) are taxable income to the recipient, except for the portion of these funds used for tuition, registration, and other university fees, or books, supplies, and equipment required for the courses being taken. Special tax regulations also apply to nonresident alien students and may require withholding of taxes at the time of aid disbursements to these individuals. Information on the taxability of scholarships can be obtained from the following Internal Revenue Service (IRS) publications and forms: *Publication 4—Student's Guide to Federal Income Tax*; *Publication 519—U.S. Tax Guide for Aliens*; *Publication 520—Scholarships and Fellowships*; *Form 1040EZ and Instructions—Income Tax Return for Single and Joint Filers With No Dependents*; and *Form 1040NR and Instructions—U.S. Nonresident Alien Income Tax Return*.

These publications and forms can be obtained by calling the IRS at 1-800-829-FORM (3676) or by accessing the IRS Web site at [www.irs.gov](http://www.irs.gov).



Tempe Town Lake's close proximity to campus makes it a prime recreational spot for students and the perfect training area for the ASU Sailing Club.

Megan Keenan photo

# Classification of Courses

## COURSE INFORMATION

Information about all lower- and upper-division courses offered at the Tempe campus and the East campus appears in the *General Catalog*, available on the Web at [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs). Course information at this Web site is more current than in the printed catalog.

The Tempe campus and the East campus graduate-level courses are described in the *Graduate Catalog*. The West campus courses are described in the *West Campus Catalog*.

Classes scheduled for the current or upcoming fall or spring semester are listed in the *Schedule of Classes*. Classes scheduled for the summer sessions are listed in the *Summer Sessions Bulletin*. Class schedules are available on the Web at [www.asu.edu/registrar/schedule](http://www.asu.edu/registrar/schedule).

## COURSE LISTINGS

See "Course Prefix Index," page 7, for the location within the catalog of all ASU courses by prefix. See the "Key to Course Listings" diagram, on this page, for help in understanding listings.

**Campus Code.** Campus codes are used in the *General Catalog* only for courses in prefixes used by both the East campus and the Tempe campus. Campus codes are used for all courses offered at the Tempe campus (M), East campus (E), and West campus (W) in the *Schedule of Classes* and the *Summer Sessions Bulletin*. (Tempe campus was formerly known as ASU Main.)

**Semester Offered.** In the *General Catalog* and *Graduate Catalog*, the semester offered shows when the academic unit plans to offer the course. Refer to the *Schedule of Classes* and the *Summer Sessions Bulletin* in print or on the Web for the actual course offerings.

**Prerequisites and Corequisites.** Some requirements, known as prerequisites, must be met *before* registering for a course. Other requirements, called corequisites, must be met

*while* taking a course. A student registering for a course should be able to show that prerequisites have been met and that corequisites will be met as stated in the catalog or *Schedule of Classes* or must otherwise satisfy the instructor that equivalent preparation has been completed.

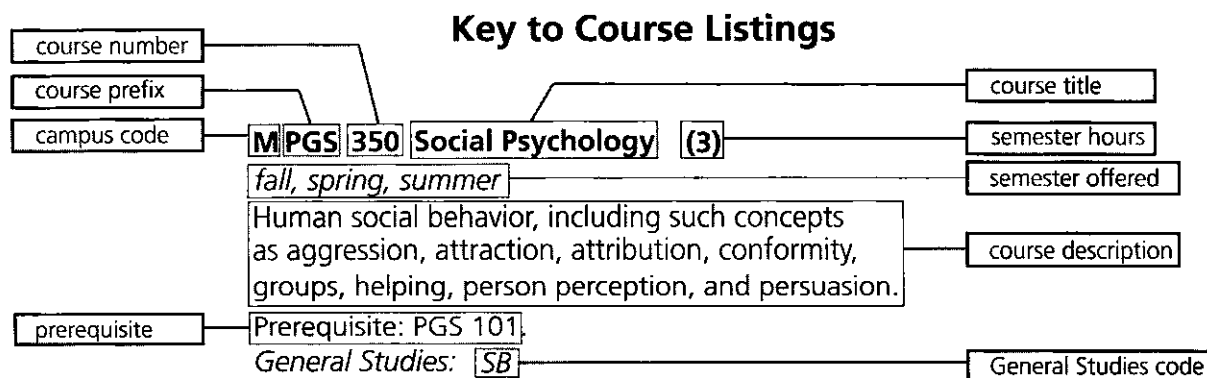
**General Studies Code.** See "General Studies," page 92, for an explanation of the General Studies requirement, which applies to students pursuing a bachelor's degree.

## COURSE NUMBERING SYSTEM

**Lower-Division Courses.** Lower-division courses, numbered from 100 to 299, are designed primarily for freshmen and sophomores. Certain classes are closed to freshmen who lack the designated prerequisites or whose majors are outside the unit offering the course. This information is available in the *General Catalog*, in the *Schedule of Classes*, or from the student's academic advisor.

**Upper-Division Courses.** Upper-division courses, numbered from 300 to 499, are designed primarily for juniors and seniors. Prerequisites and other restrictions should be noted before registration. Courses at the 400 level apply to graduate degree requirements for some graduate programs when approved by the Division of Graduate Studies.

**Graduate-Level Courses.** Graduate-level courses, numbered from 500 to 799, are designed primarily for graduate students. However, an upper-division undergraduate student may enroll in these courses with the approval of the student's advisor, the course instructor, the department chair, and the dean of the college in which the course is offered. If the course does not meet an undergraduate graduation requirement, it may be eligible for use in a future graduate program on the same basis as work taken by a nondegree graduate student. See "Reserving of Course Credit by Undergraduates," page 80.



Michael Morin graphic

## Omnibus Courses

Omnibus numbers are used for courses offered on an experimental or tutorial basis or for courses in which the content is new or periodically changes. Academic units use their prefixes with omnibus course numbers. The general nature of the work required for a particular omnibus course is consistent from unit to unit, but subject matter varies. Omnibus courses are often offered for a variable number of semester hours. See the appropriate academic unit in the *General Catalog* or major in the *Graduate Catalog* for omnibus courses.

Within the catalogs and *Schedules of Classes*, abbreviations are frequently used with a colon to introduce specific omnibus course topics (e.g., IBS 494 ST: Regional Business Environment of Southeast Asia). See the "Omnibus Course Abbreviations" table below.

Omnibus Course Abbreviations

Abbreviation	Title	Number
AP	Applied Project	593, 693, 793
CW	Conference and Workshop	594
FW	Field Work	583, 683, 783
FYS	First-Year Seminar	191
HC	Honors Colloquium	497
P	Practicum	580, 680, 780
PS	Pro-Seminar	498
R	Research	592, 692, 792
RC	Reading and Conference	590, 690, 790
RM	Research Methods	500, 600, 700
S	Seminar	591, 691, 791
ST	Special Topics	194, 294, 394, 494, 598

## OMNIBUS UNDERGRADUATE COURSES

### 191 First-Year Seminar. (1-3)

Small course emphasizing student-faculty discussion/interaction. Strongly recommended for first-year students. Must have taken 25 or fewer semester hours. Consulting an academic advisor before enrolling is recommended.

### 194, 294, 394, 494 Special Topics. (1-4)

Covers topics of immediate or special interest to a faculty member and students.

### 484 Internship. (1-12)

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

### 498 Pro-Seminar. (1-7)

Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

### 499 Individualized Instruction. (1-3)

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student's advisor, the advisor's signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumu-

lative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

**First-Year Seminar.** The First-Year Seminar series is specifically designed to meet the needs of the first-year student. Faculty members volunteer to direct the seminars and choose course topics according to their own interests and areas of specialization. Class size is restricted so that, early in their college careers, students may interact directly with some of the best faculty the university has to offer.

**Honors Courses.** The courses listed as 298 and 492 Honors Directed Study, 493 Honors Thesis, 497 Honors Colloquium, and all courses with the HON prefix are reserved for students in the Barrett Honors College. These courses range from one to six semester hours. Consulting with an honors advisor before enrolling is recommended.

## OMNIBUS GRADUATE COURSES

### 500, 600, 700 Research Methods. (1-12)

Course on research methods in a specific discipline.

### 580, 680, 780 Practicum. (1-12)

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

### 583, 683, 783 Field Work. (1-12)

Structured, supervised field experience in a field science or other discipline requiring experience in field techniques.

### 584, 684, 784 Internship. (1-12)

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

### 590, 690, 790 Reading and Conference. (1-12)

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

### 591, 691, 791 Seminar. (1-12)

A small class emphasizing discussion, presentations by students, and written research papers.

### 592, 692, 792 Research. (1-12)

Independent study in which a student, under supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

### 593, 693, 793 Applied Project. (1-12)

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

### 594 Conference and Workshop. (1-12)

Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

### 595, 695, 795 Continuing Registration. (1)

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

### 598 Special Topics. (1-4)

Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

### 599 Thesis. (1-12)

Supervised research focused on preparation of thesis, including literature review, research, data collection and analysis, and writing.

## CLASSIFICATION OF COURSES

### **792 Research. (1–15)**

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

### **799 Dissertation. (1–15)**

Supervised research focused on preparation of dissertation, including literature review, research, data collection and analysis, and writing.

The preceding courses are described in announcements of the Division of Graduate Studies and are also available in the respective departments. Under special circumstances, arrangements may be made at the dean's request, through the approval of the executive vice president and provost of the university, to increase the standard semester hours of credit.

**Visiting Student Program.** The numbers 597, 697, and 797 in the LAW prefix have been reserved for the Visiting Student Program in the College of Law.

## **SPECIALIZED PREFIXES**

**Cohort Management.** Various prefixes that start with an "X" are used for registration purposes. These courses are used by Campus Match (see "Campus Match," page 124) in the University College; Learning Communities in the College of Liberal Arts and Sciences; EnGAGE in the Ira. A. Fulton School of Engineering; and other cohort management groups.

**Elementary Education Program.** Some elementary education methodology courses use the prefix EDB for purposes of registration. These courses are reserved for students admitted to professional programs. EDB courses are converted to permanent ASU education courses (with other

prefixes) following the drop-add period, as determined by the registrar's calendar.

**Division of Graduate Studies.** Courses with the prefix GRD numbered 791 are reserved for doctoral students participating in the Preparing Future Faculty (PFF) program administered by the Division of Graduate Studies. PFF students are required to take one semester hour for each of the semesters they are enrolled in the program. Students enroll for the first-year exploratory phase. Those accepted into the second-year participatory phase enroll for one semester hour each semester.

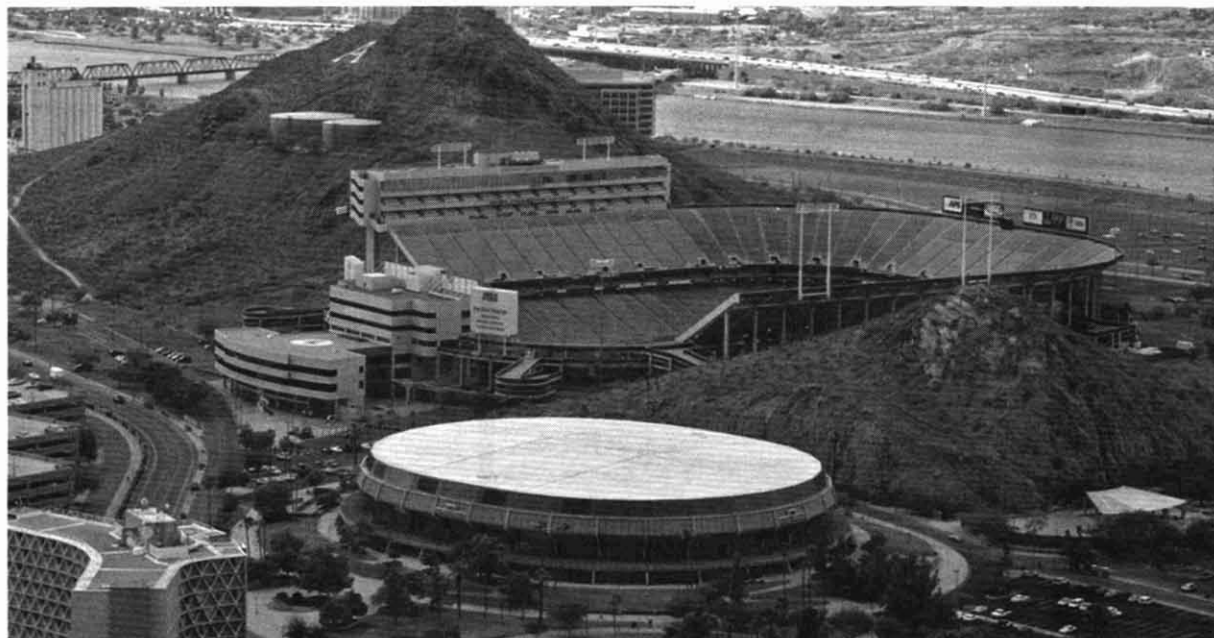
**International Programs Overseas.** Courses with the prefix IPO numbered 495 and 595 are reserved for International Programs study abroad and exchange programs. For most programs, participating students register for 18 semester hours. After completion, undergraduate students receive credit for the study completed, with a minimum of 12 semester hours and a maximum of 18 semester hours; graduate students receive credit with a minimum of six semester hours and a maximum of 12 semester hours.

IPO courses numbered 495 and 595 are converted to ASU credit for recording courses taken abroad.

IPO courses numbered 494 and 598 may be taken for one semester hour. Students register for these courses under the title "Study Abroad." At the conclusion of the program and following the transfer of overseas courses to the students' ASU records, a grade of "Y" is entered for the course.

For some special international programs, students register and receive credit for fewer semester hours.

**Joint Admission Continuous Enrollment.** Courses with the JAC prefix are used to track students admitted to ASU who are concurrently or solely enrolled in courses offered by a community college.



The north end of Tempe campus features Wells Fargo Arena, Sun Devil Stadium, and "A" Mountain.

Tim Trumble photo

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# Undergraduate Enrollment

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Arizona State University shares with other colleges and universities a tradition of service and academic excellence that is hundreds of years old. Its purpose is the exchange of knowledge and the pursuit of wisdom. ASU is committed to providing a setting where faculty and students are challenged to exchange ideas and information within an atmosphere of intellectual honesty.

The university offers its students unique opportunities to enjoy both a rich cultural heritage and a diverse student population. Anyone giving evidence of suitable preparation, by way of acceptable academic credentials, is welcome to the university without regard to race, religious creed, or national origin.

Under the constitution and the laws of the State of Arizona, jurisdiction over ASU has been vested in the Arizona Board of Regents. The regents, in turn, grant broad legal authority to the president, the administration, and the faculty to regulate student life within reasonable limits.

By enrolling, a student voluntarily assumes certain obligations of conduct and performance. These obligations include acting with honesty, integrity, and fairness in all campus and community activities. They also include avoiding certain behaviors, such as: the irresponsible use of alcohol; the use, possession, or distribution of illegal drugs; and verbal or physical assaults. Should a student intentionally or inadvertently become involved in questionable campus-related actions or activities, the university will investigate the circumstances and will enforce its standards of conduct through prescribed procedures contained in the *Student Code of Conduct*.

The primary purpose for the *Student Code of Conduct* is to set forth the standards of conduct expected of students who choose to join the university community. Students and student organizations are expected to become familiar with and adhere to this code. Violations of the *Student Code of Conduct* will result in university disciplinary action being taken and appropriate sanctions being imposed for the misconduct. Copies of the *Student Code of Conduct* are available in the Office of Student Life, SSV 263, or on the Web at [www.asu.edu/studentlife/judicial](http://www.asu.edu/studentlife/judicial).

The university further reserves the right to take necessary and appropriate action to protect the safety and welfare of the campus community and will cooperate with appropriate law enforcement agencies in their efforts to ensure a safe and secure environment.

## ENROLLMENT SERVICES AT ASU

Arizona State University is a richly diverse academic setting with more than 55,000 students. The ASU student may be a traditional 18- to 24-year-old, a recent high school graduate, a community college transfer, someone returning to college to pursue a degree, or a professional studying for an advanced degree or career change. The ASU student may live in residence halls, in on-campus housing for sororities

or fraternities, or in one of the many communities in the metropolitan Phoenix area. Each of the 50 states and more than 100 countries have students enrolled at ASU.

The university is organized into several distinct administrative areas. University Undergraduate Initiatives, one of these areas, is responsible for the delivery of a variety of services in support of students' educational experiences.

Special attention is given not only to the recruitment of a high-achieving, culturally diverse student body, but also to the creation of an energetic campus environment that both catalyzes the mature development and advances the academic endeavors of students.

Enrollment services to students begin with recruitment, admissions, student financial assistance, on-campus housing, and registration programs. ASU encourages students to explore the facilities, services, and human resources available.

## OFFICE OF UNDERGRADUATE ADMISSIONS

A primary goal of Undergraduate Admissions is to identify, inform, recruit, admit, and enroll high quality, diverse undergraduate students through admission programs and services, including early outreach, high school and community college contacts, on- and off-campus programs, applicant services, orientation, and parent programs. Students are highly encouraged to apply online. For admission requirements and application procedures, access the Web site at [www.vpsa.asu.edu/uga/requirements](http://www.vpsa.asu.edu/uga/requirements), or call the East campus at 480/727-3278, the Tempe campus at 480/965-7788, or the West campus at 602/543-8203.

## STUDENT FINANCIAL ASSISTANCE

Pursuing a college education is an important life decision as well as a major financial investment. The cost of a college education can be a major concern for many students and their families. The ASU Student Financial Assistance Office is committed to helping students, within the limits of available funds, meet college costs. Options range from scholarships to financial aid awards—grants, loans, and employment.

Approximately two-thirds of ASU students rely on some form of financial assistance to meet their educational expenses. For more information, call 480/965-3355, or access the Web site at [www.asu.edu/fa](http://www.asu.edu/fa).

## UNIVERSITY REGISTRAR'S OFFICE

Management of the registration system and maintenance of academic records are the primary responsibilities of the University Registrar's Office. Registration is available through the SunDial telephone registration system at 480/350-1500; the ASU Interactive Web site at [www.asu.edu/interactive](http://www.asu.edu/interactive); or in person at the Records Information counter at the Tempe campus, Registration Services at West campus, or Registration Services at East campus. The Student

## UNDERGRADUATE ENROLLMENT

Information System stores academic records and improves the quality of data used in academic advising. The University Registrar's Office coordinates applications for graduation and undergraduate readmission, course changes and scheduling, transcript services, applications for residency, verification of enrollment, and veteran's educational benefits. For more information, call 480/965-4747, or access the Web site at [www.asu.edu/registrar](http://www.asu.edu/registrar).

### Veterans Services

This office offers complete educational services for U.S. veterans and their eligible dependents. Counseling about admissions, registration, and veterans benefits is available. Veterans programs provide service by advising all interested veterans and dependents about educational benefits and their optimum use. Students must apply each semester to receive veterans benefits. The program also assists veteran students in obtaining suitable paid tutors, when needed, using their federal benefits. Students receiving veterans educational benefits are not eligible to receive pay for audited courses. Veterans must achieve satisfactory GPAs and semester hours progress toward their academic programs for continued educational benefits, as stated under "Satisfactory Academic Progress," page 85. The university must report this progress to the Department of Veterans Affairs each term. Failure to maintain the minimum GPA established by the university and/or the veteran's college may result in academic probation or disqualification. Although veterans may be eligible for educational benefits while on academic probation, benefits could be affected by a continuing probation status. The Veterans Services section is located in SSV 148. For more information, call 480/965-7723.

## Undergraduate Admission

ASU welcomes an application for admission from any individual seeking to benefit from the university's broad spectrum of educational programs and services.

Prospective students may access information about admission requirements and procedures via the Web at [www.asu.edu/admissions](http://www.asu.edu/admissions). Prospective students may call any campus about visits and tours or to request materials at the following numbers:

East campus: 480/727-3278  
Tempe campus: 480/965-7788  
West campus: 602/543-8203

### ADMISSION PROCEDURES FOR APPLICANTS

Individuals interested in admission to an undergraduate program at ASU must submit the following materials to Undergraduate Admissions: the required application, fee, official transcripts, and test scores. Non-U.S. citizens should see "International Student Admissions," page 71, for additional requirements.

**Application for Admission.** Prospective students must complete the Application for Undergraduate Admission. As with other state-supported colleges and universities, ASU distinguishes between resident and nonresident students with regard to tuition. Residents of Arizona are required to provide residency information, which is part of the admis-

sion application. Any student who does not provide residency information is classified as a nonresident for tuition purposes. For more information about residency, call Residency Classification at 480/965-7712.

Students who do not enroll for the semester in which they are admitted must submit a new application and application fee if they wish to apply for a subsequent semester. All documents are destroyed one year after the semester for which the student has applied if the student is not enrolled in a degree program.

Any misrepresentation or falsification on the admission application, including failure to report any college or university attendance, is cause for cancellation of admission and enrollment and/or any credits earned.

Application for admission may be made via the Web at [www.asu.edu/admissions](http://www.asu.edu/admissions), or by paper.

**Application Deadlines and Fees.** The nonrefundable application fee is \$25 for Arizona residents and \$50 for nonresidents. Applications for admission and application fees should arrive according to the appropriate priority date. Applications for admission (other than for international admission) are accepted after the date, but ASU cannot guarantee that these applications will be processed.

See the "Priority Dates for Submitting Applications and Application Fees" table, page 67.

**Freshman Students.** Students who will be freshmen may apply beginning in June before their senior year of high school. Priority dates for freshmen are December 1 for the spring semester, May 1 for summer sessions, and February 1 for fall semester. If a student is currently a high school senior, his/her complete application for admission (application, transcripts, and test scores) must arrive before December 1 to be eligible for institutional scholarship consideration.

**Transfer Students or Readmission Students.** Students transferring to ASU may apply beginning in March for spring semester and July the year before a fall semester. Priority dates for transfer and readmission students are December 1 for spring, May 1 for summer, and June 1 for fall semester. Professional programs are competitive and require a program application in addition to the application for admission to ASU. Professional programs also have specific prerequisite requirements and specific application deadlines.

**International Students.** International students must have all application materials on file by October 1 for spring semester and May 1 for a fall semester. ASU does not accept application from international students for summer sessions. International students should read the application procedures and admission requirements on page 71, or on the Web at [www.asu.edu/admissions/international](http://www.asu.edu/admissions/international).

**Official Transcripts.** Applicants are responsible for requesting transcripts from each educational institution attended. Official transcripts must be mailed or sent electronically directly to Undergraduate Admissions by the records office of the issuing institution(s). ASU does not accept transcripts sent or carried by hand by the applicants themselves or transmitted by fax. High school transcripts must show GPA and date of graduation. ASU requires an English translation of all foreign language transcripts.



Priority Dates for Submitting Applications and Application Fees

Student Status	Definition	Spring*	Summer*	Fall*
Freshman	A student who is applying to ASU while enrolled in high school or a student who has not attended college since high school graduation	Dec. 1	May 1	Feb. 1
Transfer	A student who has graduated from high school and has attended college after graduation from high school	Dec. 1	May 1	June 1
Readmission	A student who has previously attended ASU	Dec. 1	May 1	June 1
Nondegree	A student who has not attended ASU as a degree-seeking student, who has not earned a bachelor's degree, and who is not, at this time, applying to a degree program	Dec. 1	May 1	June 1
International	A student who is not a citizen or permanent resident of the United States of America, nor is a refugee in the United States	Oct. 1	Must apply for spring or fall	May 1

\* Applications may be accepted after the priority dates, but ASU cannot guarantee that the applications will be processed. International applications are not accepted after the priority dates.

Applicants who have completed an AGEC or an associate's or higher degree need not submit high school transcripts.

**ACT or SAT.** A report of test scores should be sent to Undergraduate Admissions directly from ACT or The Educational Testing Services.

All high school students and applicants who have not completed an AGEC or associate's degree or higher must submit official ACT or SAT scores.

Undergraduate Admissions may investigate any test score that is inconsistent with a student's academic record or previous scores.

**Mailing Addresses.** The mailing address for applicants for the Tempe or East campus is

UNDERGRADUATE ADMISSIONS  
ARIZONA STATE UNIVERSITY  
PO BOX 870112  
TEMPE AZ 85287-0112

The mailing address for applicants for the West campus is

ADMISSION SERVICES  
PO BOX 37100  
PHOENIX AZ 85069-7100

**Admission Before Receipt of Final Transcript.** Admission may be granted to high school seniors who submit a six-semester or seven-semester transcript that shows academic quality or rank in class in keeping with admission standards and who complete the steps in the undergraduate admission procedures. Admission is official when verification of high school graduation showing the final GPA and the date of graduation has been received in the mail by Undergraduate Admissions directly from the high school. Final transcripts must be received a minimum of 45 days in advance of the start of the semester. An admission may be canceled if the final verification shows that the applicant has not met the university requirements for admission.

Applicants enrolled in other colleges and universities may be considered for admission on the basis of meeting all admission requirements, except for a final transcript of work

in progress. This final transcript must be sent to Undergraduate Admissions directly from the issuing institution immediately after the work in progress has been completed. Transcripts carried by hand are not accepted. *Admission is official only after the final transcript has been received showing that the applicant has met the university admission requirements.* In the event the applicant does not qualify or has falsified application documents, admission and registration are canceled, and any registration fees paid are returned according to university refund policies.

### Undergraduate Admission Standards

The Arizona Board of Regents establishes undergraduate admission standards for the university in general. *Particular colleges, divisions, schools, or departments within the university may establish stricter standards, which are given in the respective sections of the catalog and should be noted by students planning to enroll in any of these programs.*

### Admission Requirements

To be eligible for admission to ASU, applicants must meet graduation, aptitude, and competency requirements as shown in the "Fall 2005–Spring 2006 Admission Requirements" table, page 68, and the "Competency Requirements" table, page 69. New admission requirements will be in effect for students entering fall 2006. Access the Web site at [www.asu.edu/admissions/2006requirements](http://www.asu.edu/admissions/2006requirements).

### Competency Requirements

Competencies may be met with high school courses or acceptable test scores or transferable college courses. See the "Competency Requirements" table, page 69. Applicants with a maximum of one deficiency in no more than two competency areas, provided the areas are not both mathematics and laboratory science, may be admitted subject to removing the deficiencies within two calendar years of university enrollment. Applicants who are 22 years of age or older or who have completed an Arizona General Education Curriculum (AGEC) or an associate's or higher degree at the time of initial enrollment are not required to meet competency requirements.

## UNDERGRADUATE ENROLLMENT

### Fall 2005–Spring 2006 Admission Requirements

	Applicants with No College Credit		Applicants with College Credit	
	Arizona Residents	Nonresidents	Arizona Residents	Nonresidents
Graduation requirement	Must be a high school graduate	Must be a high school graduate	Must be a high school graduate <i>or</i> Have completed an Arizona General Education Curriculum (AGEC) or an associate's or higher degree	Must be a high school graduate <i>or</i> Have completed an Arizona General Education Curriculum (AGEC) or an associate's or higher degree
High school aptitude requirement	Meet class rank <i>or</i> test score <i>or</i> GPA	Meet class rank <i>or</i> test score <i>or</i> GPA	Meet class rank <i>or</i> test score <i>or</i> GPA  Applicants who have 24 or more transferable college semester credits and have graduated from high school in a calendar year before their planned year of enrollment at ASU do not need to meet high school aptitude requirements.  Class rank—top 25% of the high school graduating class  <i>Applicants in the top 26 to 50% may be admitted with conditions.</i>  <i>or</i> ACT Composite—22  <i>or</i> SAT I—1040  <i>or</i> GPA—3.00 (4.00 = A) in competency courses  <i>Applicants with a 2.50–2.99 GPA in competency courses may be admitted with conditions.</i>	Meet class rank <i>or</i> test score <i>or</i> GPA  Applicants who have 24 or more transferable college semester credits and have graduated from high school in a calendar year before their planned year of enrollment at ASU do not need to meet high school aptitude requirements.  Class rank—top 25% of the high school graduating class  <i>Applicants in the top 26 to 50% may be admitted with conditions.</i>  <i>or</i> ACT Composite—24  <i>or</i> SAT I—1110  <i>or</i> GPA—3.00 (4.00 = A) in competency courses  <i>Applicants with a 2.50–2.99 GPA in competency courses may be admitted with conditions.</i>
College aptitude requirement	Does not apply	Does not apply	2.00 cumulative GPA (4.00 = A)  Many programs have higher GPA requirements for admission to their professional programs. See departments for details.	2.50 cumulative GPA (4.00 = A)  <i>Applicants with a cumulative 2.00–2.49 GPA may be admitted with conditions.</i>  Many programs have higher GPA requirements for admission to their professional programs. See departments for details.
Competency requirements	See the “Competency Requirements” table, page 69.	See the “Competency Requirements” table, page 69.	See the “Competency Requirements” table, page 69.	See the “Competency Requirements” table, page 69.



## Competency Requirements

	High School Courses		Test Scores		College Courses
English	(minimum 2.00 GPA) Four years high school English composition/literature-based courses	or	ACT English—21 or higher SAT I Verbal—530 or higher	or	One transferable three-semester-hour college-level course in English composition
Mathematics	(minimum 2.00 GPA) Four years including algebra I, one year of geometry, algebra II, and one year for which algebra II is a prerequisite	or	ACT Math—24 or higher SAT I Math—540 or higher	or	One transferable three-semester-hour college-level course in mathematics for which algebra II is a prerequisite
Laboratory science	(minimum 2.00 GPA) Three years high school courses including three of the following:  biology chemistry earth science integrated sciences physics  An advanced-level course may be substituted for one subject area.	or	Two years of high school lab science (see subjects at left) plus minimum SAT II subject test score on one of the following:  Biology Achievement—590 Chemistry Achievement—600 Physics Achievement—620 ACT Science Reasoning—20  The test score may not be from any subject from which high school credit is earned.	or	Three transferable four-semester-hour college-level laboratory science courses in different subject areas
Social science	(minimum 2.00 GPA) Complete A and B: A. One year high school American history B. One year high school social science (e.g., anthropology, European history, geography, government, world history)	or	Complete A and B: A. Minimum SAT II subject test score on American History and Social Studies Achievement—560 B. Minimum SAT II subject score on World History Achievement—580	or	Complete A and B: A. One transferable three semester-hour college-level American history course B. One transferable three-semester-hour college-level social science course
Foreign language	(minimum 2.00 GPA) Two years of the same foreign language	or	not applicable	or	Two transferable three- or four-semester-hour college-level courses in the same foreign language
Fine arts	(minimum 2.00 GPA) One unit or a combination of two semesters of fine arts	or	not applicable	or	One transferable three-semester-hour college-level fine arts course

## Admission Appeal Procedure

An applicant who does not meet the specific admission requirements may file a letter of appeal and three letters of recommendation with the Undergraduate Admissions Board:

UNDERGRADUATE ADMISSIONS BOARD  
ARIZONA STATE UNIVERSITY  
PO BOX 870112  
TEMPE AZ 85287-0112

The decision of the board is final, and any conditions set by the board for future admission supersede all other admission criteria or exceptions. The applicant must be able to meet at least one of the following criteria to be considered for appeal:

1. an upward grade trend during the high school career or an upward grade trend during the senior year;
2. positive recommendations from secondary school administrators, faculty, or counselors based on considerations such as academic potential, work experience, and leadership ability;
3. an average score of 500 (50 if taken before 2002) or greater on the General Education Development (GED) examination; or
4. completion of at least 12 semester hours of college-level academic studies with a minimum 2.00 GPA.

## Transfer Credit

Credit is awarded for traditional course work successfully completed at institutions of higher learning as indicated by

## UNDERGRADUATE ENROLLMENT

ASU and the Arizona Board of Regents. *Whether the specific credits can be applied toward a degree depends on the requirements of the department, division, school, or college in which the student is enrolled.* There are several qualifications:

1. Transfer credit is not given for courses in which the student has earned a grade below "C" (2.00).
2. While some courses successfully completed but evaluated on nontraditional grading systems (e.g., pass/fail) may be acceptable for transfer, colleges in the university may not accept such credits to fulfill graduation requirements.
3. Grades and honor points earned at other colleges and universities are considered for admission but are not included in computing the student's cumulative GPA at ASU.

The following types of credits cannot be transferred to ASU:

1. credits awarded by postsecondary institutions in the United States that lack candidate status or accreditation by a regional accrediting association;
2. credits awarded by postsecondary institutions for life experience;
3. credits awarded by postsecondary institutions for courses taken at noncollegiate institutions (e.g., governmental agencies, corporations, industrial firms); and
4. credits awarded by postsecondary institutions for noncredit courses, workshops, and seminars offered by other postsecondary institutions as part of continuing education programs.

Acceptable academic credits earned at other institutions that are based on a different unit of credit than the one prescribed by the Arizona Board of Regents are subject to conversion before being transferred to ASU. Once a transfer course equivalency is determined, it stands unless the student changes majors and the course is required by the new major.

Students who feel they have been unjustly denied credit for transfer courses they have taken may appeal to the standards committee of the college in which they have enrolled. This procedure does not apply to community college transfer of credit greater than the 64-semester-hour maximum. The decision of the committee is final.

**Veterans Exception.** By Arizona statute, no failing grades received by a veteran at an Arizona university or community college before military service may be considered when determining admissibility. This exception applies only to veterans who

1. are honorably discharged;
2. have served in the armed forces of the United States for a minimum of two years; and
3. have previously enrolled at a university or community college in Arizona.

Military service records must be submitted, including form DD 214.

**Community Colleges.** A maximum of 64 semester hours are accepted as lower-division credit when transferred from community, junior, or two-year colleges.

**Students Attending Arizona Community Colleges.** To determine the equivalency of courses offered by Arizona public community colleges and courses offered at ASU, a student should refer to the *Course Applicability System* in consultation with an academic advisor. For more information, access the Web site at [az.transfer.org/cas/students](http://az.transfer.org/cas/students).

The *Course Applicability System* addresses the acceptability of a course, not its applicability to any specific major. Community college students who plan to transfer to ASU at the end of their first or second years are strongly advised to follow the ASU transfer guides when taking courses to meet the requirements of the curriculum they select. ASU transfer guides are available at [www.asu.edu/provost/articulation](http://www.asu.edu/provost/articulation). Provided college attendance has been continuous, students are permitted to follow the degree requirements specified in the ASU catalog in effect at the time they began Arizona community college work. See "Guidelines for Determination of Catalog Year," page 88.

### Arizona General Education Curriculum (AGEC)

The Arizona public community colleges and universities have agreed upon a common structure for a general education core. This curriculum provides students attending any Arizona public community college with the opportunity to build a general education program that is transferable to any other state institution without loss of credit. This common agreement is called the Arizona General Education Curriculum (AGEC).

The AGEC is composed of 35 semester hours of lower-division general education course work in which a student may prepare for transfer.

The AGEC has three forms: AGEC-A, AGEC-B, and AGEC-S. Refer to [www.az.transfer.org/cas/atass/student/agec.html](http://www.az.transfer.org/cas/atass/student/agec.html) for a detailed description of each AGEC.

Community colleges are responsible for certifying the date of completion of the AGEC on the official institutional transcripts.

Completion of the appropriate AGEC will fulfill university lower-division general education requirements of the baccalaureate degree with which the AGEC articulates but may not apply to degrees articulated with the Transfer Guide Pathway TG-XR. Students completing the AGEC will still be required to fulfill lower-division program requirements and prerequisites within their college and major/minor area of study. To complete a degree program most efficiently, students should select courses that concurrently satisfy AGEC and major requirements.

Completion of any AGEC guarantees admission to the university provided that a GPA of 2.00 (for Arizona residents) or 2.50 (for nonresidents) has been achieved. AGEC completion, however, does not guarantee admission to any specific university program. Many majors (e.g., architecture, engineering, business, fine/creative arts, or health professions) have significant prerequisites and/or program requirements that must be completed before a student may

be admitted to upper-division course work. Community college students who are undecided about which of the universities they plan to attend or what program of study they intend to pursue are advised to explore educational options while they complete the AGECEC. In all cases, students have the responsibility for selecting general education course work that is relevant to the requirements of their intended major and degree.

Students who complete both the AGECEC and an approved associate's degree will be assigned junior-class standing by the state universities. Junior-class standing is based on the number of semester credits a student has earned and does not necessarily indicate the remaining number of semester credits needed to complete degree requirements. Course prerequisites, major requirements, and upper-division requirements continue to be specified by each university. Appropriate sequencing of courses and timely completion of course prerequisites are essential to ensure efficient progress toward a baccalaureate degree. Students who have identified the university they plan to attend and/or a major area of study are advised to fulfill requirements and prerequisites identified by these programs through transfer guides and/or curriculum check sheets provided by the state universities. The AGECEC does not replace articulation agreements developed to enhance the transfer process between specific institutions, e.g., Associate Transfer Partnership Degrees (ATP). Nor does the AGECEC eliminate the possibility that students who have identified the university they plan to attend and/or a major area of study will follow transfer guides provided by the state universities.

### International Student Admissions

To comply with U.S. government regulations, any student who plans to attend ASU on an F-1 or J-1 visa must

1. have a minimum GPA of 3.00 (4.00 = A) from secondary school course work if a freshman applicant, or have a minimum GPA of 2.50 (4.00 = A) from college or university course work if a transfer applicant;
2. meet basic competency requirements if he or she attended four years of high school in the United States;
3. submit a financial statement not more than six months old from a financial institution assuring adequate resources to support himself or herself while in residence at the university;
4. have all required admissions materials and credentials reach Undergraduate Admissions by May 1 if applying for the fall semester or October 1 if applying for the spring semester (an English translation of all foreign language documents is required);
5. pay a nonrefundable application fee of \$50 in U.S. funds; and
6. meet all appropriate immigration standards and requirements.

**Credit from a Foreign Institution.** Transfer credits or advanced standing is granted for academic course work completed at foreign tertiary institutions that are either rec-

ognized by the home government/Ministry of Education as a degree-awarding institution or attached to a regionally accredited U.S. college or university as a Study Abroad Program. No credit is awarded for English composition courses completed at foreign institutions (credit may be awarded at the discretion of ASU when the credit was completed in a country whose native language is English). There are no advanced credits for the international affiliation programs overseas unless they comply with this general policy. For more information, call Undergraduate Admissions at 480/965-2688.

**Nondegree International Applicants.** All students with F-1 and J-1 visas must maintain full-time status while studying in the United States. Undergraduate full-time status is defined as a minimum of 12 semester hours. However, students with F-1 and J-1 visas may be permitted to take a maximum of eight semester hours at ASU as a nondegree student while maintaining full-time status at other higher education institutions or in the American English and Culture Program (AECPC) at ASU. Approval by the responsible office at the other institution and/or AECPC is required to ensure that the student maintains full-time status in compliance with applicable U.S. laws and regulations.

**TOEFL.** Applicants whose native language is not English (identified by the U.S. Department of State Bureau of Public Affairs) must provide evidence of English language proficiency as indicated by acceptable scores on the Test of English as a Foreign Language (TOEFL) as follows:

The TOEFL requirement for general admission (preprofessional) to the university is 500 (paper-based) or 173 (computer-based). The TOEFL requirement for admission to the professional programs in the Ira A. Fulton School of Engineering and the College of Nursing is 550 (paper-based) or 213 (computer-based).

The following exceptions apply to the TOEFL requirement:

1. Applicants who have earned a bachelor's degree from a regionally accredited college or university in the United States are exempt from the TOEFL.
2. Applicants who have completed 48 transferable semester hours at a U.S. college or university—including two semesters (six semester hours) of freshman composition that satisfy the ASU First-Year Composition requirement—with a cumulative GPA of 2.50 or higher are exempt from the TOEFL requirement.
3. Applicants who have completed four years of high school in a U.S. high school may be admitted to ASU without a TOEFL score but are subject to competency and aptitude requirements.
4. Applicants who have completed their junior and senior years of high school in a U.S. high school may be admitted with a minimum SAT verbal score of 550 or an ACT English score of 23 in lieu of a TOEFL score.
5. Applicants who have completed Advanced 2 Level of the American English and Culture Program are exempt from the TOEFL requirement.

## UNDERGRADUATE ENROLLMENT

### American English and Culture Program

The American English and Culture Program (AECF) features an intensive course of study designed for adult international students who desire to become proficient in English as a second language for academic, professional, or personal reasons. Inquiries about the curriculum, fee schedule, and other topics should be addressed to

AMERICAN ENGLISH AND CULTURE PROGRAM  
ARIZONA STATE UNIVERSITY  
PO BOX 873504  
TEMPE AZ 85287-3504

Acceptance into the AECF is separate from admission to the university. For more information, see "English as a Second Language," page 707, call 480/965-2376, or access [www.asu.edu/esl](http://www.asu.edu/esl) on the Web.

### Applicants with Disabilities

Some classroom accommodations, such as Braille, audio tapes, interpreting services, enlarged print, and lab material conversions, may require an extended preparation time (i.e., one semester). For this reason, applicants with disabilities are encouraged to contact Disability Resource Center (DRC) upon application to the university to request information regarding disability documentation/eligibility requirements and deadlines to ensure accommodations for the beginning of the semester. (If students miss DRC deadlines, DRC attempts to provide, but cannot guarantee, requested accommodations. Effective alternatives may be necessary.) *Disability identification to DRC is confidential and cannot affect eligibility for admission.*

Students applying to Tempe or East campus should call 480/965-1234 (voice) or 480/965-9000 (TTY). For more information, access the Web site at [www.asu.edu/drc](http://www.asu.edu/drc), or write

DISABILITY RESOURCE CENTER  
ARIZONA STATE UNIVERSITY  
PO BOX 873202  
TEMPE AZ 85287-3202

Students applying to West campus should call 602/543-8145 (voice) or 602/543-4327 (TDD). For more information, access the Web site at [www.west.asu.edu/drc](http://www.west.asu.edu/drc), or write

DISABILITY RESOURCE CENTER  
ARIZONA STATE UNIVERSITY  
PO BOX 37100, MC 1050  
PHOENIX AZ 85069-7100

### Admission of Undergraduate Nondegree Applicants

Any high school graduate is invited to enroll for eight or fewer semester hours per semester of undergraduate course work as a nondegree student. Students currently enrolled in high school and persons under the age of 18 may be admitted as nondegree students by submitting official ACT or SAT scores that meet the high school aptitude requirements of the university. Persons admitted as nondegree students for a specific year and term must remain nondegree until the next semester.

Nondegree applicants must complete an Undergraduate Admissions Application at [www.asu.edu/apply](http://www.asu.edu/apply). Arizona residents must submit a nonrefundable \$25 application fee, and nonresidents must submit a nonrefundable \$50 application fee. Applicants who are not high school graduates or who are younger than 18 years of age must also submit ACT or SAT scores.

No more than 15 hours of completed nondegree work may be applied to a degree program. A nondegree student who decides to work toward a bachelor's degree must *apply for admission to a degree program* with Undergraduate Admissions and meet normal admission requirements.

Once registered in a regular degree program, a student is not permitted to register again in a nondegree status. Nondegree students are not eligible to receive most types of financial aid, nor are they eligible to receive certain benefits, such as veteran benefits.

### Steps from Admission to Registration

**Certificate of Admission.** After being admitted, students receive a Certificate of Admission, an Immunization Verification form, and information about orientation. International students additionally receive a Certificate of Eligibility (Form I-20 or DS-2019), which enables them to apply for the appropriate visa.

Upon receipt, students should check their admission information for accuracy and report any errors or changes. For East and Tempe campuses, call 480/965-7788. For West campus, call 602/543-8203.

**Freshman Orientation.** University orientation programs for new students and their parents are provided at numerous times during the year, including the beginning of each semester. Most orientation programs include academic advising, campus tours, special events, and an introduction to university resources and procedures. Some programs offer sessions for parents. Newly admitted students are sent information preceding each orientation program. Students are expected to attend orientation activities.

**Transfer Orientation.** Transfer students receive information about orientation via mail.

**Immunization Requirements.** Every newly admitted student born after December 31, 1956, must provide proof of measles/rubella immunity to the Student Health and Wellness Center. *Students are not permitted to register until proof of immunity to measles/rubella is on file with the Student Health and Wellness Center.*

The following proof of measles/rubella immunity is considered adequate: (1) two vaccinations of MMR (measles, mumps, rubella), at least one of which must have been given after December 31, 1979; or (2) a copy of laboratory test results that show immunity to both measles and rubella.

Measles/rubella immunity proof can be faxed to the Student Health and Wellness Center at 480/965-8914. Verification that the Student Health and Wellness Center received a student's proof of measles/rubella immunity can be confirmed by going to [www.asu.edu/interactive](http://www.asu.edu/interactive) on the Web two working days after the information has been faxed to the Student Health and Wellness Center.

In addition, it is recommended that students also be immunized against mumps, tetanus, hepatitis-B, diphtheria, and meningitis. Special populations may need other vaccines. For more information on measles requirements, visit the Student Health and Wellness Center's Web site at [www.asu.edu/health](http://www.asu.edu/health).

**International Student Enrollment.** International students must complete these additional steps.

**Student Health Insurance.** All F-1 or J-1 visa students must have health and accident insurance through ASU. The cost for insurance is automatically added to their registration bill. *No privately acquired insurance is accepted in place of the ASU insurance.* However, students who have health insurance through their government or sponsoring agency may qualify for an insurance waiver if that coverage has been preapproved by the university. No waivers may be granted after the first two weeks of classes. To find out if their sponsor is on the preapproved list, sponsored students and others who fall into this category are encouraged to contact the Student Health and Wellness Center at 480/965-2411 or visit the Student Health and Wellness Center Web site at [www.asu.edu/health](http://www.asu.edu/health).

All international students must report to the International Student Office in Student Life upon arrival on campus.

## Credit by Examination

No more than 60 hours of credit are awarded for any or all programs, including ASU comprehensive and proficiency examinations. Credit will not be awarded for any course in which the student has been given credit from any educational institution. Credit will not be granted for a course taken at an educational institution after credit by examination has been awarded. Credit may not be received for a lower-level or prerequisite course when credit has already been received in a higher-level course within the same field. In these categories, only credit earned by comprehensive examination counts toward the resident credit requirement for graduation.

**Advanced Placement.** Students who have taken an advanced placement (AP) course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an AP Examination of the CEEB may receive university credit. No credit is given for any examination with a score of 2 or 1. There is no limit to the number of AP credits that can be used to meet the General Studies requirement, including the requirements in natural sciences (SQ and SG), and literacy and critical inquiry (L).

When the scores are received by the university directly from the CEEB, credit is awarded as shown in the "Advanced Placement Credit" table, page 76.

**College-Level Examination Program (CLEP).** Students who have taken a College-Level Examination of the College Entrance Examination Board may receive university credit. The table of CLEP credit applies to all students enrolled in the university for the first time in August 1975 and any student enrolling thereafter; see the "CLEP Credit" table, page 74. CLEP examination credit is *not* given where it duplicates credit previously earned by the student at the uni-

versity or accepted by the university for work done elsewhere. All examinations are given monthly by University Testing Services.

The General Studies requirement in natural science (SQ and SG) and literacy and critical inquiry (L) are not satisfied by CLEP. There is no limit to the number of CLEP credits that can be used to fulfill the other parts of the General Studies requirement. (See the "General Studies" table, page 94.) A student who has received ASU credit for a course due to Special Programs credit may not duplicate the credit by enrolling in the same class for credit at ASU or transferring it to another institution.

**Subject Examinations.** To obtain credit or placement for all subject exams except English, French, German, and Spanish, a student must receive a score of 50 (Computer Based Training [CBT] scale) or higher. To obtain credit for English Composition with Essay, a student must receive a standard score of 610 (1978 scale), 500 (1986 scale), or 50 (CBT scale). For test scores for French, German, and Spanish, see the "CLEP Credit" table, page 74.

*All equivalency is subject to future review and possible catalog change.* For more information, call University Testing Services at 480/965-7146 or stop by EDB 301.

**DSST.** Students who have taken a DSST (DANTES [Defense Activity for Nontraditional Education Support] Subject Standardized Test) may receive university credit. Credit is awarded for score results at or above the American Council on Education's recommended score if the subject examination is applicable to a program of study at ASU or may be assigned elective credit. To receive credit, a transcript showing the DSST results must be received by ASU directly from the Educational Testing Service.

**International Baccalaureate (IB) Diploma/Certificate.** Students who present an International Baccalaureate Diploma/Certificate may qualify for university credit, depending on the level of the examination and the grade received. Arizona State University grants credit for higher-level courses only. A grade of 5 qualifies the student to receive credit for up to two introductory courses while a grade of 4 qualifies a student to receive credit for one introductory course. No credit is awarded for English as a Second Language (English B). Credit is awarded according to the "International Baccalaureate Diploma/Certificate Credit" table, page 75.

**Comprehensive Examinations.** A comprehensive examination is intended to permit a student to establish academic credit in a field in which the student has gained experience or competence equivalent to an established university course. Applications are given only for courses listed in the current catalog and only for courses in which a comprehensive examination can serve as a satisfactory measure of accomplishment.

A number of restrictions apply. The student must be enrolled at ASU with *no more than 100 semester hours of credit earned* (includes credits earned at ASU, credits transferred to ASU from another institution, and all credits earned by examination). The examinations must be taken during the first two semesters in residence in a degree program at the university.

## UNDERGRADUATE ENROLLMENT

### CLEP Credit

Examinations	Semester Hours	Equivalency
American Government	3	POS 110
American History—Early Colonization to 1877	3	HST 109
American History—1865 to the Present	3	HST 110
American Literature	6	ENG 241, 242
Analysis and Interpretation of Literature	3	Elective credit
Calculus with Elementary Functions	4	MAT 270
College Algebra (1993) (replaces College Algebra [1979])	3	MAT 117
College Algebra and Trigonometry	3	MAT 170
College French	4	FRE 101 (Students must score 50–54.)
	8	FRE 101, 102 (Students must score 55–61.)
	12	FRE 101, 102, 201 (Students must score 62–65.)
	16	FRE 101, 102, 201, 202 (Students must score 66 or higher.)
College German	4	GER 101 (Students must score 39–45.)
	8	GER 101, 102 (Students must score 46–50.)
	12	GER 101, 102, 201 (Students must score 51–59.)
	16	GER 101, 102, 201, 202 (Students must score 60 or higher.)
College Mathematics	3	MAT 142
College Spanish	4	SPA 101 (Students must score 50–54.)
	8	SPA 101, 102 (Students must score 55–65.)
	12	SPA 101, 102, 201 (Students must score 66–67.)
	16	SPA 101, 102, 201, 202 (Students must score 68 or higher.)
English Composition	0	With essay qualifies for ENG 105
English Literature	3	Elective credit
Freshman College Composition (replaces College Composition and Freshman English)	0	No credit; not used for placement purposes.
General Biology	8	BIO 187, 188
General Chemistry	9	CHM 113, 115
Human Growth and Development	0	No credit
Information Systems and Computer Applications	3	Elective credit
Introduction to Educational Psychology	0	No credit
Introductory Business Law	3	Elective credit
Introductory Psychology	3	PGS 101
Introductory Sociology	3	SOC 101
Mathematics	3	MAT 106
Natural Sciences	8	Elective credit
Principles of Accounting	6	Elective credit
Principles of Macroeconomics (replaces Introductory Macroeconomics)	3	ECN 111
Principles of Management	0	No credit
Principles of Marketing	0	No credit
Principles of Microeconomics (replaces Introductory Microeconomics)	3	ECN 112
Social Sciences and History	6	Elective credit
Trigonometry	0	No credit
Western Civilization—Ancient Near East to 1648	6	HST 102, 103
Western Civilization—1648 to the Present	3	HST 104

International Baccalaureate Diploma/Certificate Credit

Examination	Score	Semester Hours	Equivalency
Art/Design	7, 6, or 5	6	ART 111, 112
	4	3	ART 112
Biology	7, 6, or 5	8	BIO 187, 188
	4	4	BIO 187
Chemistry	7, 6, or 5	9	CHM 113, 115
	4	4	CHM 113
Computer Science	7, 6, 5, or 4	3	CSE 100
Economics	7, 6, or 5	6	ECN 111, 112
	4	3	ECN 111
English A	7, 6, or 5	6	ENG 101, 114
	4	3	ENG 114
English B	No credit	0	None
Foreign Language A or B*	7, 6, or 5	8	Foreign language 101, 102
	4	4	Foreign language 101
Geography	7, 6, 5, or 4	3	GCU 102
History—American	7, 6, or 5	6	HST 109, 110
	4	3	HST 109
History—East and Southeast and Oceania	7, 6, or 5	6	HST 107, 240
	4	3	HST 107
History—European	7, 6, or 5	6	HST 103, 104
	4	3	HST 103
Mathematics	7, 6, 5, or 4	4	MAT 270
Music	7, 6, 5, or 4	3	MTC 125
Physics	7, 6, or 5	8	PHY 111, 112, 113, 114
	4	4	PHY 111, 113
Social and Cultural Anthropology	7, 6, 5, or 4	3	ASB 102
Theatre—Introduction	7, 6, 5, or 4	3	THE 100
Visual Arts	7, 6, or 5	6	ART 111, 112
	4	3	ART 112

\* No credit is awarded if the language is the student's native language.

The decision on the suitability of course material for a comprehensive examination, the development of a comprehensive examination, and the administration of an examination are strictly departmental functions. An application is for one course only. The student should complete an application form with the number, title, and number of semester hours for the course. When completed, the application must be approved by the student's advisor and the chair of the department responsible for offering the course.

The student must then pay the stated fee for such examinations at Cashiering Services. The receipt must be taken to the departmental office.

The examination is prepared by the instructor who normally conducts the course, and it is comprehensive in nature and scope. The instructor and other experts designated by the chair grade the examination, using letter grades "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "D," or "E." If the grade is "C" or higher, a mark of "Y" is entered on the student's permanent record; otherwise, no entry is made. Credit by examination is indicated as such on the record. The student is notified by mail of the result of the

examination. In cases of failure ("D" or "E"), the student is not given an opportunity to repeat the examination.

A student pursuing a second baccalaureate degree may not receive credit by comprehensive examination, but with prior approval of the college, the student may use the examination to waive a course requirement if a grade of "C" or higher is earned.

**Proficiency Examinations.** Proficiency examinations and auditions are given

1. to waive a course requirement;
2. to validate certain transfer credits in professional programs; and
3. to determine a student's ability in a field where competence is an important consideration.

Detailed information may be obtained from the dean's office of the college in which the student is registered.



## UNDERGRADUATE ENROLLMENT

### Advanced Placement Credit

Examination	Score	Semester Hours	Equivalency
Art—History	5 or 4	6	ARS 101, 102
	3	3	ARS 101 or 102
Art—Studio—Drawing	5	6	ART 111, 112
	4	3	ART 111
Art—Studio—2-D	5	6	ART 112, 194 ST: 2-D Design
	4	3	ART 112
Art—Studio—3-D	5	6	ART 115, 194 ST: 3-D Design
	4	3	ART 115
Biology	5 or 4	8	BIO 187, 188
	3	4	BIO 100
Chemistry	5 or 4	9	CHM 113, 115
	3	4	CHM 113
Computer Science A	5 or 4	3	CSE 100
Computer Science AB	5 or 4	6	CSE 100, 200
Economics—Introductory Macroeconomics	5 or 4	3	ECN 111
Economics—Introductory Microeconomics	5 or 4	3	ECN 112
English—Language and Composition	5 or 4	6	ENG 101, 114
English—Literature and Composition	5 or 4	6	ENG 101, 204
Environmental Science	5 or 4	3	PLB 322
French—Language	5	14	FRE 201, 202, 311, 312
	4	11	FRE 201, 202, 311
	3	8	FRE 201, 202
French—Literature	5	18	FRE 111, 201, 202, 321, 322
	4	12	FRE 111, 201, 202
	3	8	FRE 201, 202
Geography—Human	5, 4, or 3	3	GCU 102
German—Language	5	14	GER 201, 202, 311, 312
	4	11	GER 201, 202, 311
	3	8	GER 201, 202
History—American or European	5 or 4	6	HST 109 and 110 <i>or</i> HST 103 and 104
History—World	5 or 4	3	HST 101
Latin—Language	5	16	LAT 101, 102, 201, 202
	4	12	LAT 101, 102, 201
	3	8	LAT 101, 102
Latin—Literature	5	16	LAT 101, 102, 201, 202
	4	12	LAT 101, 102, 201
	3	8	LAT 101, 102
Mathematics—Calculus AB	5, 4, or 3	4	MAT 270
Mathematics—Calculus BC	5 or 4	8	MAT 270, 271
	3	4	MAT 270
Music	5 or 4	3	MTC 125
Physics B	5	8	PHY 111, 112, 113, 114
Physics C—Electricity and Magnetism	5 or 4	3	PHY 112
Physics C—Mechanics	5 or 4	3	PHY 111
Political Science—American Government and Politics	5 or 4	3	POS 110
Political Science—Comparative Government and Politics	5 or 4	3	POS 150
Psychology	5 or 4	3	PGS 101
Spanish—Language	5	14	SPA 201, 202, 311, 312
	4	11	SPA 201, 202, 311
	3	8	SPA 201, 202
Spanish—Literature	5	15	SPA 111, 201, 202, 325
	4	12	SPA 111, 201, 202
	3	8	SPA 201, 202
Statistics	5, 4, or 3	3	STP 226



## UNIVERSITY TESTING REQUIREMENTS

All new, transfer, or readmitted undergraduate students who plan to enroll for seven or more semester hours must meet one of the following testing requirements. *Students who fail to meet at least one of these requirements will not be allowed to register for any course the following semester:*

1. Take the ACT English or SAT verbal examination and have scores submitted to ASU.
2. Receive a score of 4 or 5 for the advanced placement examination in English offered by the College Entrance Examination Board and have scores submitted to ASU.
3. Take the CLEP general examination in English Composition with Essay, earning a score that qualifies for placement in ENG 105, and have scores submitted to ASU.
4. Have previously taken ENG 101, 102, 105, 107, or 108 at ASU; or have previously earned a grade of "Y"; or be currently enrolled in WAC 101 or 107 at ASU. If the course was taken before 1980, contact the Recording Section, in SSV 142, before registering for classes.
5. Transfer a course equivalent to ENG 101, 102, 105, 107, or 108 with a grade of "C" (2.00) or higher. An official transcript showing the grade must be received at ASU. If a student transfers an equivalent composition course from a public community college or university in Arizona, the equivalency is automatically posted, and the student need not take further action. A student transferring a composition course from any other college or university must have the course evaluated for equivalency. The student must take a copy of both the transfer transcript and the catalog description of the course to the Writing Programs Office, in LL 314 (480/965-3853). See "First-Year Composition Requirement," page 88, for more information.
6. International students from non-English-speaking countries must take ENG 107 (or WAC 107 followed by ENG 107 the second semester) in the first semester at ASU, unless they have taken and transferred an equivalent composition course from a college or university in the U.S. Such a course must be evaluated for equivalency by the Composition Office.

## Placement Examinations

**English.** Students who have not taken any composition courses are placed in First-Year Composition courses according to their scores on the ACT English or SAT verbal tests.

*Note:* The ACT and SAT scoring systems have been modified. Shown in parentheses are equivalent ACT scores for tests taken before October 1989 and equivalent SAT scores for tests taken before April 1995.

Students who score 18 (16) or below on the ACT English test or 460 (380) or below on the SAT verbal test must enroll

in WAC 101, a basic writing course (see "Writing Across the Curriculum," page 374). Students who score between 19 (17) and 28 (24) on the ACT English test or between 470 (390) and 650 (580) on the SAT verbal test are eligible to enroll in ENG 101. Students who score 29 (25) or higher on the ACT English test or 660 (590) or higher on the SAT verbal test may take ENG 105 in place of ENG 101 and 102. Students may qualify for ENG 105 by achieving appropriate scores on the CLEP General Examination in English Composition with Essay. For more information, go to University Testing Services, in EDB 301, access the Web site at [www.asu.edu/uts](http://www.asu.edu/uts), or call 480/965-7146.

**Foreign Language.** For information regarding foreign language placement testing, see "Foreign Language Requirement," page 409 and "Foreign Language Placement," page 409, and "Credit by Examination," page 73.

**Mathematics.** Readiness examinations are required before registering for the following mathematics courses at ASU: MAT 106, 113, 117, 119, 142, 170, 210, and 270. For more information, visit the Department of Mathematics and Statistics undergraduate office, in PS A211, or access the Web site at [fym.la.asu.edu/placement](http://fym.la.asu.edu/placement).

## Academic Advising

Effective academic advising of students is an essential aspect of the educational experience at ASU. The university is committed to providing quality advising to continuing, first-time, and transfer students. To achieve the highest-quality advising, students, faculty, and staff must work to form a partnership.

ASU academic advisors help students to

1. develop a suitable educational plan;
2. select appropriate courses;
3. interpret institutional requirements;
4. develop problem-solving and decision-making skills;
5. become independent learners; and
6. clarify career and life goals.

Advisors also

1. enhance student awareness of opportunities and services on campus;
2. assist students in evaluating their progress toward their educational goals;
3. refer students to institutional and community resources, including opportunities for research and internships;
4. promote and enhance the university's recruiting and retention efforts;
5. engage in activities to keep themselves informed on issues that impact student success; and
6. support cultural diversity at the university.

Each college has advisors to assist students in developing programs of study, assessing educational goals, and understanding rules, procedures, and curriculum requirements. In some colleges, these advisors are faculty members. In

## UNDERGRADUATE ENROLLMENT

### Academic Advising at Tempe Campus

College	Location	Telephone	Days	Hours <sup>1</sup>	Web Address
Barrett Honors College	MB C100L1	480/965-4033	Mon.–Fri.	8 A.M.–5 P.M. <sup>2</sup>	asu.edu/honors
College of Architecture and Environmental Design	ARCH 136	480/965-6384	Mon.–Fri.	9 A.M.–4 P.M. <sup>3</sup>	www.asu.edu/caed
College of Education	EDB L1-13	480/965-5555	Mon.–Fri.	8 A.M.–5 P.M.	coe.asu.edu/oss
College of Law	LAW 120	480/965-6181	Mon.–Fri.	8 A.M.–5 P.M. <sup>4</sup>	www.law.asu.edu
College of Liberal Arts and Sciences	FOUND 1120	480/965-6506	Mon.–Fri.	8 A.M.–5 P.M.	clas.asu.edu
College of Nursing	NUR 108	480/965-2987	Mon.–Fri.	8 A.M.–5 P.M.	nursing.asu.edu
College of Public Programs	WILSN 203	480/965-1034	Mon.–Fri.	8:30 A.M.–5 P.M. <sup>3</sup>	asu.edu/copp/students/advisors.html
Ira A. Fulton School of Engineering	ECG 109	480/965-1726 or 965-1750	Mon.–Fri.	8:30 A.M.– 4:30 P.M. <sup>2, 3</sup>	www.fulton.asu.edu
Katherine K. Herberger College of Fine Arts	GHALL 116	480/965-4495	Mon.–Fri.	8 A.M.–5 P.M. <sup>3</sup>	herbergercollege.asu.edu
University College Academic Advising Services	UASB 129	480/965-4464	Tues. Other weekdays	9 A.M.–6:00 P.M. 9 A.M.–5 P.M.	www.asu.edu/duas/cas
W. P. Carey School of Business	BA 109	480/965-4227	Wed. Other weekdays	8 A.M.–6:30 P.M. 8 A.M.–5 P.M.	www.wpcarey.asu.edu/up
Walter Cronkite School of Journalism and Mass Communication	STAUF A207	480/965-5011	Mon.–Fri.	8 A.M.–5 P.M.	cronkite.asu.edu

<sup>1</sup> Arizona is on mountain standard time all year and does not observe daylight saving time.

<sup>2</sup> Walk-ins are welcome; appointments are recommended.

<sup>3</sup> The office is closed from noon to 1 p.m.

<sup>4</sup> Call for additional hours.

others, they are full-time, professional advisors. Students often may seek academic and career advice from both faculty members and full-time advisors. Students are encouraged to take advantage of the skill and knowledge of the advising professionals available to them. Most new students and many continuing students must meet with an advisor as a condition of registration.

An additional unit, University College Academic Advising Services, is a central advising, referral, and information facility whose staff is available to assist students in their academic careers at ASU. Emphasis is placed on advising services to first-time, prospective, transfer, and visiting students and students in transition, such as those changing majors and those without majors. Bachelor of Interdisciplinary Studies students (BIS or pre-BIS) also receive academic advising in Academic Advising Services. In addition to guidance in the exploration or selection of a major, Academic Advising Services provides general academic information and referrals to all areas of student academic support. For more information, visit Academic Advising Services in UASB 129, or call 480/965-4464.

Students are strongly encouraged to seek academic advising at the earliest possible time and to do so regularly throughout their academic careers, whether or not advising is mandatory in their particular programs. Advisors may be contacted at the locations and times shown in the “Academic

Advising at Tempe Campus” table, on this page. For academic advising at the East campus, see the “Academic Advising at East Campus” table, page 528. (See “Building Abbreviations,” page 757, for a list of building abbreviations and names.)

## Readmission to the University

Undergraduate students who have previously attended ASU but have not been enrolled at ASU for one semester or more are required to apply for readmission through the University Registrar’s Office for the semester in which reenrollment is intended. For information and application materials, students requesting readmission may access the Web site at [www.asu.edu/registrar/readmissions](http://www.asu.edu/registrar/readmissions), call 480/965-7550, or write

ARIZONA STATE UNIVERSITY  
UNIVERSITY REGISTRAR’S OFFICE  
PO BOX 870312  
TEMPE AZ 85287-0312

Students must submit an application for readmission and appropriate fee by the priority date for the semester of application. See the “Priority Dates for Submitting Applications and Application Fees” table, page 67. Applicants classified as residents must submit a \$25 nonrefundable application fee, and applicants classified as nonresidents must submit a

\$50 nonrefundable fee. If, meanwhile, the student has attended another accredited college or university, it is necessary for the student to have on file an official transcript of all academic work taken. Failure to report such attendance is considered misrepresentation and falsification of university records. In addition, it is considered cause for Records Hold action and withholding of further registration privileges. An applicant for readmission must have an ASU GPA of 2.00 or higher, depending on the college of the major. An applicant who does not meet this GPA requirement and is below good standing may need to undergo an appeal process. In these cases, the completed application for readmission may be subject to a deadline that is earlier than the readmissions priority deadline. Students whose GPA is below a 2.00 and who are applying to a college other than the one they had previously attended and students who were disqualified must submit an application for reinstatement in addition to the application for readmission. Nondegree applicants for readmission must have a minimum GPA of 2.00. If not, the applicant may apply for readmission to summer or winter only to raise the ASU GPA, or the applicant may apply for admission to a degree program for fall or spring through Undergraduate Admissions.

**Conditional Readmission.** A student completing academic work in progress at another institution may be granted conditional readmission. This conditional status remains effective until a final official transcript is received. Additional registration privileges are withheld if this condition for readmission is not cleared.

### Academic Renewal

Academic renewal is a university policy administered for the purpose of recalculating the ASU cumulative GPA of undergraduate students who have been readmitted to a degree program after an absence of at least five continuous calendar years, including summer sessions, and who have completed in good standing a minimum of 12 college-approved additional hours in residence within three semesters after reentry. Students may have the former academic record before the five-year absence (including transfer credits) accepted in the same manner as if the credits were transfer credits. That is, earned hours are carried forward for up to 60 hours of credit in which a grade of "C" (2.00) or higher was earned. The cumulative GPA is based only on credits earned subsequent to the student's reentry. All graduation residency, academic recognition residency, and GPA requirements must be fulfilled after academic renewal. A request for academic renewal follows this procedure:

1. Students interested in academic renewal must request the Application for Academic Renewal from the Readmission Section of the University Registrar's Office or the dean of the college offering the major.
2. The Application for Academic Renewal may be submitted immediately upon readmission but not later than the start of the third semester after readmission.

3. The Application for Academic Renewal is submitted by the student to the dean of the college offering the major.
4. The dean specifies in advance a minimum of 12 semester hours.
5. When the approved credits are completed with a cumulative GPA of 2.50 or higher, and no grade lower than "C" (2.00) in each course, the dean forwards the Application for Academic Renewal to the University Registrar's Office for processing.

Only students working toward their first undergraduate degree are eligible to apply for academic renewal, which may be effected only once during a student's academic career. Academic renewal is transferable among colleges. All students with ASU GPAs below 2.00 are eligible to petition for academic renewal. Individual colleges may elect to entertain petitions for academic renewal from students with ASU GPAs above 2.00. College standards committees have final authorization on academic renewal petitions. Eligibility for graduation is based on the ASU cumulative GPA after academic renewal. However, a student's complete record—before and after academic renewal—remains on the transcript and may be taken into consideration when a student applies for undergraduate professional or graduate programs.

### Registration

All persons attending a class at ASU must be registered for that class. A student is considered to be registered when all registration fees have been paid in full.

**Eligibility.** Only eligible students may register for courses at ASU. An eligible student is either continuing from the previous semester or has been admitted or readmitted to the university. See "Undergraduate Admission," page 66, and "Readmission to the University," page 78.

**Proof of Identification.** To receive university services, photo identification must be presented. Each admitted or readmitted student who completes the registration process for a regular semester needs to obtain a student identification card. This photo identification card is valid for the duration of the student's enrollment at ASU.

Photo IDs are issued throughout the semester at the Sun Card office located in the Memorial Union on Tempe campus; Student Services (QUAD 2) on East campus; and through the bookstore, UCB 140, at West campus. See the *Schedule of Classes* or refer to "Parking Decals," page 54.

**Registration Fees.** Registration fees are due and must be paid in full at the time specified for each semester in the *Schedule of Classes*. If any payment tendered is unauthorized, incomplete, or received after the due date, registration fees are considered unpaid.

**Schedule of Classes.** The *Schedule of Classes*, published for the fall and spring semesters, and the *Summer Sessions Bulletin* are distributed without charge. These publications are also available online at [www.asu.edu/registrar/schedule](http://www.asu.edu/registrar/schedule). They list course offerings, dates, times, places, and

## UNDERGRADUATE ENROLLMENT

**Enrollment Verification Guidelines**

Term	Student	Full Time	Half Time	Less Than Half Time
Regular semester	Undergraduate	12 or more hours	6–11 hours	5 or fewer hours
	Graduate	9 or more hours	5–8 hours	4 or fewer hours
	Research/teaching assistant	6 or more hours	—	—
Five-week summer session	Undergraduate	4 or more hours	2 hours	1 hour
	Graduate	3 or more hours	2 hours	1 hour
	Research/teaching assistant	2 or more hours	1 hour	—
Eight-week summer session	Undergraduate	6 or more hours	3–5 hours	2 or fewer hours
	Graduate	5 or more hours	3–4 hours	2 or fewer hours

procedures for registration, along with other important information about the term.

**Course Loads.** A minimum full-time course load for an undergraduate student is 12 semester hours. The maximum course load for which a student may register is 18 semester hours (with the exception of a 19-hour maximum for students enrolled in the College of Architecture and Environmental Design or Ira A. Fulton School of Engineering). A student wishing to register for more than the maximum must petition the standards committee of the college in which the student is enrolled and must obtain an approved overload before registration. See “Summer Session Semester Hour Load,” on this page, for summer course load information.

**Reserving of Course Credit by Undergraduates.** Seniors at ASU within 12 semester hours of graduation may enroll in a 400-level or graduate course and reserve the credit for possible use in a future graduate program. The course cannot be used to meet a baccalaureate graduation requirement. Before registration in the course, the student must submit a Division of Graduate Studies Petition form requesting credit reservation. The form must be signed by the student’s advisor, the head of the academic unit offering the class, and the dean of graduate studies.

Permission to reserve a course does not guarantee admission to a graduate degree program or that the course may be used toward graduate degree requirements. A maximum of nine semester hours may be reserved, and only courses in which the student earned an “A” (4.00) or “B” (3.00) grade are applicable. Reserved credit earned before admission to a graduate degree program is classified as nondegree credit. The maximum course load for a student enrolled in a reserved course is 15 semester hours during a regular semester and six hours during a summer session.

**Summer Session Semester Hour Load.** The summer session semester hour load limit is seven semester hours for each five-week session and nine semester hours for the eight-week session. The student may not exceed a total of 14 semester hours for any combination of sessions.

**Concurrent Enrollment.** Provided that the other institution’s regulations concerning enrollment, graduation requirements, and transfer of credits are not violated, a student may enroll in classes at other institutions or in independent learning courses while enrolled at ASU. However, the student is urged to seek advising before concurrent enroll-

ment to assure orderly progress toward a degree. If total credits exceed the maximum course load, prior permission must be granted by the college standards committee. See “Course Loads,” on this page.

**Attendance.** The instructor has full authority to decide whether class attendance is required.

**Enrollment Verification Guidelines.** The registrar is responsible for verifying enrollment according to the general guidelines in the “Enrollment Verification Guidelines” table, on this page. Independent learning courses are not considered for enrollment verification purposes.

## Cooperative Programs

**Cooperative Education.** Cooperative education at ASU is any educational program that requires *alternating classroom and work experience* in government or industry. The work experience exists for its educational value.

**Full-Time Status of Co-op Students.** A co-op student, during a work semester, is identified as both co-op and full time by the university. To qualify, the student must have met prescribed hours and GPA requirements.

**Rights and Privileges of Co-op Students.** During their work semesters, co-op students have the rights, privileges, and protections—with regard to university matters—accorded to full-time students, except financial aid. They maintain catalog continuity and have student access to university facilities and events.

**Financial Aid for Co-op Students.** Co-op students are not identified to lenders (including ASU) as being in loan repayment status. They have an “in school” full-time enrollment status. Co-op students do not receive any financial aid disbursement during their co-op semesters, *nor are such awards transferred to another semester*. The student is responsible for notifying Student Financial Assistance as soon as plans for a co-op term are made but no later than 10 days before the co-op term begins. The department or school is responsible for notifying Student Financial Assistance of students approved for co-op terms.

**Traveling Scholar Program.** The Traveling Scholar Program is a cooperative program among the state universities designed to enable students to take advantage of programs or special resources that are not available at their own institutions. Any undergraduate student with a GPA of at least 2.50 or any graduate student with a GPA of at least 3.00

enrolled at ASU, Northern Arizona University, or University of Arizona may be designated a Traveling Scholar by prior mutual agreement of the appropriate academic authorities at both the sponsoring and hosting institutions. For more information and the application form, call the University Registrar's Office Records Information section, or access the Web at [www.asu.edu/registrar/forms](http://www.asu.edu/registrar/forms).

## Grading System

### DEFINITIONS

#### Unit of Credit

The Arizona Board of Regents has defined (May 26, 1979) a unit of credit for the institutions under its jurisdiction. A minimum of 45 hours of work by each student is required for each unit of credit. An hour of work represents a minimum of 50 minutes of class time—often called a “contact hour”—or 60 minutes of independent study work. For lecture-discussion courses, this requirement equates to at least 15 contact hours and a minimum of 30 hours of work outside the classroom for each unit of credit. Even though the values of 15 and 30 may vary for different modes of instruction, the minimum total of 45 hours of work for each unit of credit is a constant. Since the unit of credit as defined by the Arizona Board of Regents is the cornerstone of academic degree programs at ASU, degrees granted by other institutions that are recognized by ASU should be based on a similar unit of credit.

#### Grades and Marks

All grades and marks appear on the permanent record and/or unofficial transcript. They are indicated by the letters shown in the “Grades” table, on this page.

Ordinarily the instructor of a course has full discretion in selecting which grades to use and report from the available grading options.

#### Grading Options

Ordinarily a grade of “A+,” “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “D,” or “E” is given upon completion of a course, unless another grading option such as “audit” or “pass/fail” is indicated at the time of registration. *Grading options cannot be changed after the close of the drop/add period.*

#### Incomplete

A mark of “I” (incomplete) is given by the instructor only when a student who is otherwise doing acceptable work is unable to complete a course because of illness or other conditions beyond the student's control. The mark of “I” should be granted only when the student can complete the unfinished work with the same instructor. However, an incomplete (“I”) may be completed with an instructor designated by the department chair if the original instructor later becomes incapacitated or is otherwise not on campus. The student is required to arrange with the instructor for the completion of the course requirements. The arrangement is recorded on the Incomplete Grade Request form. The student has one calendar year from the date the mark of “I” is recorded to complete the course. If the student completes the course within the calendar year, the instructor must

Grades		
Grade	Definition	Value
A+	—	4.33 <sup>1</sup>
A	Excellent	4.00
A-	—	3.67
B+	—	3.33
B	Good	3.00
B-	—	2.67
C+	—	2.33
C	Average	2.00
D	Passing	1.00
E	Failure	0.00
I	Incomplete	—
NR	No report	—
P	Pass	—
W	Withdrawal	—
X	Audit	—
Y	Satisfactory	—
Z	Course in progress <sup>2</sup>	—

<sup>1</sup> Although the scale includes a grade of A+ with a value of 4.33, the cumulative GPA is capped at 4.00.

<sup>2</sup> This grade is usually given pending completion of courses.

submit an Authorization for Change of Grade form to the University Registrar's Office, whether the student passed or failed the course. Marks of “I” are changed to a grade of “E” (0.00) for purposes of evaluating graduation requirements for undergraduate students. Marks of “I” received in the fall 1983 semester or thereafter for undergraduate courses that have been on a student's record for more than one calendar year are automatically changed to a grade of “E” (0.00). An undergraduate student does not reregister or pay fees for a course for which an incomplete “I” has been received in order to complete the course.

Students who receive a mark of “I” in courses at the 500 level or above have one calendar year to complete the course for a grade. After one calendar year, the mark of “I” becomes a permanent part of the transcript. To repeat the course for credit, a student must reregister and pay fees. The grade for the repeated course appears on the transcript but does not replace the permanent “I.”

#### Satisfactory

A mark of “Y” (satisfactory) may be used at the option of individual colleges and schools within the university and is appropriate for internships, projects, readings and conferences, research, seminars, theses, and workshops. The “Y” is included in earned hours but is not computed in the GPA.

#### Credit Enrollment

The semester hour is the unit on which credit is computed. It represents one 50-minute class exercise per week per semester. To obtain credit, a student must be properly registered and must pay fees for the course.

## UNDERGRADUATE ENROLLMENT

### Audit Enrollment

A student may choose to audit a course, in which case the student attends regularly scheduled class sessions, but no credit is earned. The student should obtain the instructor's approval before registering and paying the fees for the course. Selected courses may not be audited. Veteran students using education benefits should see "Veterans Services," page 66.

The mark of "X" is recorded for completion of an audited course, unless the instructor determines that the student's participation or attendance has been inadequate, in which case the mark of "W" (unrestricted withdrawal) may be recorded. This grading option may not be changed after the close of drop/add. The "X" is not included in earned hours and is not computed in the GPA.

### Pass/Fail Enrollment

A mark of "P" (pass) or "E" (0.00 [fail]) may be assigned for this grading option. This grading method may be used at the option of individual colleges and schools within the university. Consult the academic advisor for detailed information and restrictions. Approval of both the class instructor and the college of the major are required before registration. "P" is included in earned hours but is not computed in the GPA.

### Remedial Enrollment

A mark of "RC" (remedial credit) or "RN" (remedial no credit) may be assigned for this grading option. The course appears on an unofficial ASU transcript but does not appear on the grade report or official ASU transcript and is not included in earned hours. Remedial hours are included in verification of enrollment for purposes of loan deferment and eligibility.

## WITHDRAWALS

### Instructor-Initiated Drop

An instructor may drop a student for nonattendance during the second week of classes in fall or spring semesters or the first four days of each summer session. Instructor-initiated drops for nonattendance are signed by the dean or dean's designee. The college notifies students by mail. The student must contact the instructor before the end of the first week of classes if absences during that period cannot be avoided.

### Drop/Add

Students registering for courses for a semester or summer session may drop or add courses through the first week of classes in a semester or the first two days of a summer session. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of drop/add periods. During this period, a student may drop one or more but not all scheduled courses without penalty. Courses that are dropped do not appear on the student's transcript and fees paid are refunded according to the refund schedule printed in the *Schedule of Classes*, depending on the student's remaining hours. A student who wishes to withdraw from all courses during the drop/add period must process complete withdrawal from the university.

### Course Withdrawal

During the second week through the 10th week of a semester or the third day through the third week of a summer session or at the midpoint of the term for winter and flexibly scheduled sessions, a student may withdraw from any course with a mark of "W." See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the withdrawal period.

### Instructor-Initiated Withdrawal

An instructor may withdraw a student from a course with a mark of "W" or a grade of "E" (0.00) only if the student's continued presence in the course is disruptive to the instructor's ability to conduct the course. A student may appeal an instructor-initiated withdrawal within 10 days of being withdrawn to the standards committee of the college in which the course is offered. The decision of the committee is final.

### Withdrawal from the University

To withdraw from *all* classes after having paid registration fees, a student must submit a request to withdraw using ASU Interactive, SunDial, or submit a signed request to any registrar location. The ASU Interactive and SunDial complete withdrawal option is available through the semester transaction deadline. A student may withdraw from all courses with marks of "W" through the semester transaction deadline. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the complete withdrawal periods.

### Medical/Compassionate Withdrawal

A medical/compassionate withdrawal request may be made in extraordinary cases where serious illness or injury (medical) or another significant personal situation (compassionate) prevents a student from continuing in his or her classes, and where incompletes or other arrangements with the instructor are not possible. Usually, consideration is for complete withdrawal. All applications for withdrawal require thorough and credible documentation. Application for less than a complete withdrawal must be especially well documented to justify the selective nature of the medical/compassionate withdrawal request.

A student may request and be considered for a *medical* withdrawal when extraordinary circumstances, such as a serious illness or injury, prevent the student from continuing in classes. This policy covers both physical-health and mental-health difficulties.

A student may request and be considered for a *compassionate* withdrawal when extraordinary personal reasons, not related to the student's physical or mental health (for example, care of a seriously ill child or spouse, or a death in the student's immediate family), prevent the student from continuing in classes.

Each college has a dean's representative (medical/compassionate withdrawal designee) to review medical/compassionate withdrawal requests, according to that college's procedures. A student requesting a medical/compassionate withdrawal is referred to the dean's designee of the college of the major. A nondegree student is referred to the dean's designee of the college with which he or she is primarily affiliated. The dean's designee determines the appropriateness of the medical/compassionate withdrawal request and

whether an administrative hold is indicated. Removal of the hold must be authorized by the designee before the student can register for a future semester or be readmitted to the university.

The medical/compassionate withdrawal procedure results in a special note line on the unofficial transcript. Refunds are not given beyond six months past the close of the semester. Only one Request for Documented Medical/Compassionate Withdrawal form needs to be filed with the college of the major, even if classes in more than one college are involved. Medical/compassionate withdrawal applications and supporting documents are retained and filed separately from the student's other records.

## GRADE POINTS

For the purpose of calculating the grade point average (GPA), grade points are assigned to each of the grades for each semester hour as follows: "A+," 4.333 points; "A," 4.000 points; "A-," 3.667 points; "B+," 3.333 points; "B," 3.000 points; "B-," 2.667 points; "C+," 2.333 points; "C," 2.000 points; "D," 1.000 point; and "E," 0.000 points. GPAs are rounded to the nearest 100th of a grade point.

### Grade Point Average

Grade points earned for a course are multiplied by the number of semester hours to produce honor points. For example, receiving an "A," which is assigned four grade points, in a three-semester-hour course would produce 12 honor points. The grade point average (GPA) is obtained by dividing the total number of honor points earned by the total number of semester hours graded "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "D," or "E." Other grades do not carry grade points.

*Semester GPA* is based on *semester* net hours. *Cumulative GPA* is based on *total* net hours. Although the plus/minus scale includes a grade of A+ with a value of 4.33, the cumulative GPA is capped at 4.00.

### Change of Grade

Ordinarily the instructor of a course has the sole and final responsibility for any grade reported. Once the grade has been reported to the registrar, it may be changed upon the signed authorization of the faculty member who issued the original grade. Approval for the change is also required by the department chair and the dean of the college concerned. This policy also applies to the grade of "I" (incomplete).

### University Policy for Student Appeal Procedures on Grades

**Informal.** The steps outlined on this page, beginning with step A, must be followed by any student seeking to appeal a grade. Student grade appeals must be processed in the regular semester immediately following the issuance of the grade in dispute (by commencement for fall or spring), regardless of whether the student is enrolled at the university. It is university policy that students filing grievances and those who are witnesses are protected from retaliation. Students who believe they are victims of retaliation should immediately contact the dean of the college in which the course is offered.

- A. The aggrieved student must first undergo the informal procedure of conferring with the instructor, stating the evidence, if any, and reasons for questioning that the grade received was not given in good faith. The instructor is obliged to review the matter, explain the grading procedure used, and show how the grade in question was determined. If the instructor is a graduate assistant and this interview does not resolve the difficulty, the student may then go to the faculty member in charge of the course (regular faculty member or director of the course sequence) with the problem.
- B. If the grading dispute is not resolved in step A, the student may appeal to the department chair or other appropriate chair of the area within the department (if any). The department chair may confer with the instructor to handle the problem. Step B applies only in departmentalized colleges.
- C. If these discussions are not adequate to settle the matter to the complainant's satisfaction, the student may then confer with the dean of the college concerned (or the dean-designate), who will review the case. If unresolved, the dean or designate may refer the case to the college academic grievance hearing committee to review the case formally. In most instances, however, the grievance procedure does not go beyond this level.

**Formal.** The following procedure takes place after steps A, B, and C (or A and C) have been completed.

- D. Each college has on file in the office of the dean (and in each department of the college) the procedures and composition of the undergraduate or graduate academic grievance hearing committee for student grievances. Each college committee shall operate under grievance procedures as stated which satisfy due process requirements. The committee shall always meet with the student and the instructor in an attempt to resolve the differences. At the conclusion of the hearing, the committee shall send its recommendations to the dean.
- E. Final action in each case will be taken by the dean after full consideration of the committee's recommendation. Grade changes, if any are recommended, may be made by the dean. The dean shall inform the student, instructor, department chair (if any), the registrar, and the grievance committee of any action taken.

### Repeating Courses

An undergraduate course taken at ASU may be repeated for credit if the grade of "D" (1.00), "E" (0.00), or "W" or a mark of "X" is received. An undergraduate student may not repeat for credit an undergraduate course in which a grade of "C" (2.00) or higher is earned. Undergraduate courses in which grades of "D" (1.00) or "E" (0.00) are received may be repeated only once. After an undergraduate student repeats 100- and 200-level courses, the student's transcript shows both grades, but the student's cumulative GPA reflects only the higher grade. After an undergraduate student repeats 300- or 400-level courses, the student's cumulative GPA and the transcript reflect both grades.

To be eligible for the deletion of "D" (1.00) or "E" (0.00) grades received at ASU, the course must be repeated at ASU. Independent Learning courses may not be used to



## UNDERGRADUATE ENROLLMENT

repeat "D" (1.00) or "E" (0.00) grades. Students who have graduated are not eligible to delete the grade for a course taken before the award of the ASU bachelor's degree.

Students wishing to repeat a class for the third time with grades of "D" (1.00) or "E" (0.00) must petition the standards committee of the college in which they are enrolled. This policy does not apply to seminar and independent study courses with different content each semester. This policy affects only undergraduate students and undergraduate courses.

### Demonstration of Mastery

An undergraduate student who receives a "D" (1.00) in a course in which a "C" (2.00) or higher is required may use the grade from an equivalent course taken elsewhere to demonstrate mastery at the "C" (2.00) or higher level. However, the course may neither be transferred to ASU (since credit has already been given for the course) nor computed in the student's GPA.

### Midterm Report

Instructors are strongly encouraged to evaluate students at midterm for academic progress. A student who has been evaluated for a "D" (1.00) or "E" (0.00) at midterm receives a midterm report. The midterm "D" (1.00) and "E" (0.00) grades are not recorded on the student's permanent record. Midterm reports are mailed to the student's local address of record.

### Final Grades

Grades may be viewed online at [www.asu.edu/interactive](http://www.asu.edu/interactive) or accessed through SunDial at 480/350-1500.

### Records Hold

The University Registrar's Office enforces a financial records hold or administrative hold on the records of a student when an outstanding financial obligation or disciplinary action has been reported.

When a financial hold is placed on the record, the following results may occur:

1. No official transcript is issued.
2. Registration privileges are suspended.
3. Other student services may be revoked.

The second and third results may also occur when an *administrative* hold is placed on the record. The hold remains effective until removed by the initiating office. It is the student's responsibility to clear the conditions causing the hold.

### Transcripts

Students may request official transcripts via ASU Interactive, in person, or by written letter. The request must include the following information about the student:

1. name;
2. former name(s);
3. ASU ID number (or Social Security Number [SSN]);
4. date of birth;
5. first and last dates of attendance;
6. current return address;
7. daytime phone number; and

8. specific mailing address for each transcript ordered;

Students (except those who attended ASU before 1980) must also select one of the following options to be displayed on the transcript:

1. ASU ID only;
2. SSN only;
3. both ASU ID and SSN displayed; or
4. neither ASU ID or SSN displayed.

The University Registrar's Office does not issue a transcript if the student has a financial records hold. Official transcripts can be requested in person, by mail or via ASU Interactive. The fee for official transcripts is \$10.00 per copy. "Rush" transcripts (requested to be printed and picked up the same day) cost \$10.00 in addition to the total cost of the transcripts ordered. Special delivery processing, instead of regular mail, is available via FedEx or U.S. Express Mail at \$19.50 per U. S. delivery address (with some exceptions). Express deliveries to addresses outside the U.S., is available via International FedEx Express or International Express Mail at \$38.00. The express costs are in addition to the cost of the transcript(s). (Please note that FedEx Express will not deliver to a PO Box; an actual FedEx deliverable street address is required.) Fees are subject to change without notice. Unofficial transcripts may be requested in person at the University Registrar's Office, or by mail or fax (480/965-2295) if a signed release is enclosed. There is no charge for an unofficial transcript. Also, students may view and print their own unofficial transcripts via the Web using ASU Interactive at [www.asu.edu/registrar](http://www.asu.edu/registrar).

*Note:* Pre-1980 records are not available via the Web option.

All in-person transcript requests require presentation of photo identification. Requests are not accepted from third parties without a written release from the student. For information on parental access to records, see "Access to Records," page 87.

## Retention and Academic Standards

**Class Standing.** A student's class standing is determined by the number of hours earned, as shown in the "Class Standing" table, on this page.

Class Standing	
Student	Hours Earned
Freshman	24 or fewer semester hours earned
Sophomore	25 to 55 semester hours earned
Junior	56 to 86 semester hours earned
Senior	87 or more semester hours earned
Graduate	Bachelor's degree from accredited institution

**Academic Good Standing.** For the purpose of retention, academic good standing for degree-seeking students is defined as shown in the "Academic Good Standing" table, page 85.



**Academic Good Standing**

Total Earned Hours	Minimum Cumulative GPA
24 or fewer	1.60
25 to 55	1.75
56 or more	2.00

A student who does not maintain the minimum GPA standard is placed on academic probation or is disqualified. A student on academic probation is in conditional good standing and is permitted to enroll. A student who has been disqualified is not in academic good standing and is not permitted to enroll for fall or spring semesters.

To transfer from one college to another within the university or to be eligible for readmission, a student must have an ASU GPA of 2.00 or higher. The GPA determining good standing is computed on courses taken only at ASU.

For purposes of retention or transfer, an individual college may set higher GPA standards; otherwise, the university standards prevail. See the college sections of this catalog or contact the college deans' offices for statements regarding college retention standards.

**Meeting Basic Competencies.** New students are required to have completed a specific number of courses in the areas of American history, English, laboratory science, mathematics, social science, fine arts and foreign language. Students who are exempt from these requirements include students who have completed an Arizona General Education Curriculum (AGEC) or an associate degree, students admitted by GED, and students who are 22 years of age or older by the first day of the semester of admission. An admitted student who needs to meet competencies in one or more of these areas must satisfy the requirement within two years of the beginning of the student's first semester at ASU. Subject competencies in each area may be met by earning a grade of "D" (1.00) or higher at ASU in an appropriate course(s) as listed in the "Basic Competencies" table, page 86.

**Appealing Basic Competencies.** A student who has not met all basic competencies at the end of two calendar years after the student's initial date of enrollment is not permitted to continue at ASU. Each student is notified that he or she may not register or, if already registered, that their registration has been canceled.

A student wishing to appeal the dismissal should submit a petition through his or her college. The colleges have three options in reviewing these appeals:

1. extending the student's end semester to allow one additional semester to complete the required course work;
2. allowing the student to substitute a course not currently approved to fulfill a competency area when an error has been made or for other just causes; or
3. denying the petition.

College actions are forwarded to the University Registrar's Office for processing.

**Dean's List.** Undergraduate students who earn 12 or more graded semester hours ("A+," "A," "A-," "B+," "B," "B-,"

"C+," "C," "D," or "E") during a semester in residence at ASU with a GPA of 3.50 or higher are eligible for the Dean's List. A notation regarding Dean's List achievement appears *only* on the final grade report available online at [www.asu.edu/registrar](http://www.asu.edu/registrar).

**Satisfactory Academic Progress.** The university is required to publish and enforce standards of satisfactory academic progress for certain students (e.g., student athletes, students receiving financial aid, and students receiving veterans benefits).

Certification of satisfactory progress for student athletes is verified by the academic advisor and the dean's designee for certifying satisfactory progress. Certification of satisfactory progress for students receiving financial aid or veterans benefits is verified by Student Financial Assistance or the Veterans Services section, respectively. Students should contact their advisors or the appropriate office for additional information on satisfactory progress requirements.

**Probation.** A student's college assumes responsibility for enforcing academic standards and may place on probation any student who has failed to maintain good standing as previously defined. For purposes of probation and retention, an individual college may set higher GPA standards. A student on academic probation is required to observe any rules or limitations the college may impose as a condition for retention.

**Disqualification.** A student who is placed on probation at the end of a semester is subject to disqualification by the college at the end of the following semester if the conditions imposed for retention are not met.

Disqualification is exercised at the discretion of the college. *A disqualified student is notified by the dean of the college and is not allowed to register in a fall or spring semester at the university.* If the student has already registered for a future fall or spring semester, then the registration is cancelled. A student who has been disqualified may apply for reinstatement to the college standards committee. A student who is disqualified may not attend as a nondegree student.

**Reinstatement.** A student who has been disqualified and has skipped a fall or spring semester must follow the procedures for readmission. See "Readmission to the University," page 78.

A disqualified student who has not skipped a semester may submit an Application for Reinstatement to the college of his or her major. If the student wishes to transfer to a different college and has a GPA of 2.00 or greater, he or she may submit an Application for Reinstatement to the college into which he or she wishes to transfer. If the student wishes to transfer to a different college and has a GPA below 2.00, he or she must submit the Application for Reinstatement to the Registrar's Recording/Readmission Section (SSV 142). The University Admissions Board then reviews the application.

**Academic Integrity.** The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the university or other sanctions as specified in the University Student Academic Integrity Policy.

## UNDERGRADUATE ENROLLMENT

### Basic Competencies

Area	ASU Courses That May Be Used to Meet Basic Competencies
American history	Any one course: HST 109, 110
English	Any one course: ENG 101, 105, 107; WAC 101, 107
Fine arts	Any one course: ADE 120; any undergraduate three-semester-hour course offered in the Katherine K. Herberger College of Fine Arts; West campus courses: ARS 101; IAP 101, 302, 331; MUS 354, 355; THE 100, 320, 321, 400
Foreign language	Student must complete through the 102, 107, or 111 course level of any foreign language course.
Laboratory science*	
Chemistry	Any one course: CHM 101, 107, 113, 114, 117
Earth sciences	Any numbered selection: 1. ABS 130 2. GLG 101 and 103 3. GLG 105 4. GLG 110 and 111 5. GPH 111
Life sciences	Any one course: BIO 100, 187, 188, 201; PLB 108
Physics	Any numbered selection: 1. AST 111 and 113 2. AST 112 and 114 3. PHS 110 4. PHY 101 5. PHY 111 and 113 6. PHY 112 and 114 7. PHY 121 and 122 8. PHY 131 and 132
Mathematics	Any one course: MAT 117, 119, 142, 170, 210, 260, 270, 290
Social science	Any one course: ASB 102; ECN 111, 112; GCU 102, 121, 141; HST 102, 103, 104; PGS 101; POS 101, 110, 150, 160; SOC 101

\* The laboratory science requirement is designed to demonstrate competency in at least two laboratory science areas. For example, if one lab science competency has been met in life sciences through high school course work, the ATP biology achievement test, or college course work, the second or third lab science course must be selected from chemistry, earth sciences, or physics.

Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. The University Student Academic Integrity Policy is available from the Office of the Senior Vice President and Provost and from the deans of the individual colleges.

**Suspension or Expulsion for Academic Dishonesty.** All decisions relating to expulsion or suspension that are concerned with academic dishonesty are the sole prerogative of the dean of the school or college in which the student has been admitted. These decisions of suspension or expulsion can be appealed in accordance with established university procedures. Application for reinstatement may be made to any of the academic units within the university after the specified period of suspension. Merely having remained in a suspended status for a period of time does not, in itself, constitute a basis for reinstatement.

## Student Records

### Family Educational Rights and Privacy Act of 1974

The federal Family Educational Rights and Privacy Act of 1974, also known as the Buckley Amendment or FERPA, sets forth the requirements governing the protection of the

privacy of education records of students who are or have been in attendance at ASU.

### Definitions

**Eligible Student.** For the purpose of this act, an *eligible student* is defined as any individual formally admitted to and enrolled at ASU.

**Record.** The term *record* includes any information or data recorded in any medium, including, but not limited to, handwriting, print, tapes, film, microfilm, microfiche, and electronic means.

### Types of Information

**Education Record.** The term *education record* refers to those records directly related to a student and maintained by an educational institution. Two types of education records are subject to the provisions of this act: (1) directory information and (2) personally identifiable information. The term does not include those records specifically excluded by Section 99.3 of the privacy act.

**Directory Information.** The term *directory information* includes the following student information: name, local,

permanent and ASU e-mail addresses (including directory number), local telephone number, date of birth, academic level, major field of study, college of enrollment, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student.

**Personally Identifiable Information.** The term *personally identifiable information* includes all information not defined as directory information. This includes, but is not limited to, the name of a student's parent or other family member(s), a personal identifier such as the student's ASU ID number or Social Security number, a list of personal characteristics, or other information that would make the student's identity easily traceable and any information, including directory information, that the student has indicated should not be released.

### Access to Records

An eligible student may inspect and review his or her own education records. Some form of photo identification must be displayed before access to education records is allowed.

Directory information may be released to anyone without consent of the student unless the student has indicated otherwise. Students may request that this information not be released by completing a form in the University Registrar's Office. A request to withhold this information excludes the

student from being listed in the annual directory only if the request is submitted to the University Registrar's Office before the end of the third week of the fall semester.

All other education records that contain personally identifiable information may not be released without the written consent of the student. A parent of a dependent student may challenge denial of such access by producing the most current copy of Internal Revenue Form 1040. If that form lists the student in question as a dependent, the parent is required to sign an affidavit that affirms that the student is his or her dependent. The affidavit is retained by the University Registrar's Office. Upon receipt of the affidavit, the university may make student records available to the parent for the rest of that calendar year as specified under the Buckley Amendment.

Students may grant access to individuals or agencies by completing a form in the University Registrar's Office.

### Location of Policy and Records

The custodian of education records at ASU is the University Registrar's Office. Copies of this policy are available in the following offices: Reserve sections of Hayden Library and the Noble Science and Engineering Library, the University Registrar's Office, Undergraduate and Graduate Admissions, and Student Life. The University Registrar's Office also maintains a directory that lists all education records maintained on students by ASU.



The ASU marching band performs during the Homecoming Parade.

Tim Trumble photo

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# University Graduation Requirements

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## UNIVERSITY REQUIREMENTS

All students enrolled in a baccalaureate degree program must fulfill the following university requirements to graduate.

### Credit Requirements

A minimum of 120 semester hours is required for graduation with a baccalaureate degree. A minimum of 45 semester hours in upper-division courses is required for graduation. Some programs may require more than 120 semester hours and 45 upper-division semester hours for graduation; refer to specific college graduation requirements.

Not more than 60 semester hours in independent learning courses and/or earned by comprehensive examination (including Advanced Placement, College-Level Examination Program, DANTES Subject Standardized Test, and International Baccalaureate Diploma/Certificate exams) are accepted for credit toward the baccalaureate degree.

### Grade Point Requirement

A minimum cumulative grade point average of 2.00 for all courses taken at ASU is required to graduate with a baccalaureate degree.

### General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement of a minimum of 35 semester hours of approved course work. (See "General Studies," page 92.) For General Studies courses, see the "General Studies Courses" table, page 94, the course descriptions, the *Schedule of Classes*, and the *Summer Sessions Bulletin*.

Students transferring from Arizona community colleges with a certified completion of the appropriate Arizona General Education Curriculum (AGEC) will have satisfied all lower-division General Studies requirements of the baccalaureate degree with which the AGEC articulates. For more details regarding the different versions of AGEC, refer to [az.transfer.org/cas/atass/student/agec.html](http://az.transfer.org/cas/atass/student/agec.html).

### Mathematics Requirement

All undergraduate degree-seeking students are expected to fulfill the university's mathematics requirement by the time they have accumulated 30 hours of credit in residence at ASU. Any student who has more than 30 hours of credit and has not fulfilled the mathematics requirement must enroll in a mathematics course or an appropriate prerequisite course and continue to do so every semester until the mathematics requirement is met. A waiver may be granted for continuous enrollment if there are scheduling conflicts detrimental to the student's academic progress.

### First-Year Composition Requirement

Completion of both ENG 101 and 102 or ENG 105 with a grade of "C" (2.00) or higher is required for graduation from ASU in any baccalaureate program. International stu-

dents from non-English-speaking countries may meet the First-Year Composition requirement by completing ENG 107 and 108 with a grade of "C" (2.00) or higher.

**New or Transfer Students.** Before new students or transfer students can register for the first time at ASU, they must determine what courses to take to complete the university First-Year Composition requirement; the students must then enroll immediately in composition courses and continue to do so every term until composition requirements are met. *Colleges may grant waivers to the immediate and continual enrollment requirement when there are scheduling conflicts detrimental to the student's academic progress.* Transfer students from public community Arizona colleges or universities can determine the acceptability of their composition courses by referring to the *Course Applicability System* in consultation with an academic advisor. Composition courses transferred from out-of-state institutions must be evaluated and approved by the Composition Office.

The transfer student must file an application in the student's college for Equivalency of First-Year Composition Requirements, along with a transcript and catalog descriptions of the composition courses to be transferred. The application, available in each college, should be filed immediately upon transfer of course work to ASU so that the student is able to enroll in an additional composition course, if required to do so.

For more information, visit the Composition Office in LL 314.

### Resident Credit Requirement

Resident credit refers to a course that is offered in a regular semester, winter session, intersession, or summer session. Credit earned through comprehensive examinations is also included when calculating ASU resident hours. Credit earned through independent learning, advanced placement, the College-Level Examination Program, or an International Baccalaureate Diploma/Certificate are excluded when calculating ASU resident hours.

**Campus Resident Credit Requirement.** Every candidate for the baccalaureate degree is required to earn a minimum of 30 semester hours in resident credit courses at the ASU campus from which the student will graduate.

### Guidelines for Determination of Catalog Year

The *General Catalog* is published annually. Department, school, division, college, and university requirements may change and are upgraded often. In determining graduation requirements, an undergraduate student may use only one edition of the *General Catalog* but may elect to follow any subsequent catalog. Students maintaining continuous enrollment at any public Arizona community college or university may graduate according to the requirements of the catalog in effect at the time of initial enrollment or according to the requirements of any single catalog in effect during

# UNIVERSITY GRADUATION REQUIREMENTS

## Continuous Enrollment

Student's Activity	Semester/Year	Status
<b>Example A</b>		
Admitted and earned course credit at an Arizona community college	Fall 2001	Active
Continued at an Arizona community college	Spring 2002	Active
	Fall 2002	
Transferred to an Arizona university	Spring 2003	Student enrolled under 2001–2002 or any subsequent catalog
<b>Example B</b>		
Admitted and earned course credit at an Arizona community college	Fall 1997	Active
Enrolled but earned all “Ws” or “Es” (0.00)	Spring 1998	Inactive
Enrolled in audit courses only	Fall 1998	Inactive
Nonattendance	Spring 1999	Inactive
Transferred to an Arizona university	Fall 1999	Student enrolled under 1999–2000 or any subsequent catalog
<b>Example C</b>		
Admitted and earned course credit at an Arizona community college	Fall 1999	Active
Nonattendance	Spring 2000	Inactive
	Fall 2000	
	Spring 2001	
Readmitted and earned course credit at an Arizona community college	Fall 2001	Active
Transferred to an Arizona university	Spring 2002	Student enrolled under 2001–2002 or any subsequent catalog
<b>Example D</b>		
Admitted and earned course credit at an Arizona community college	Fall 2000	Active
Nonattendance	Spring 2001	Inactive
Readmitted and earned course credit at an Arizona community college	Summer 2001	Active
Nonattendance	Fall 2001	Inactive
	Spring 2002	
Transferred to an Arizona university	Fall 2002	Student enrolled under 2000–2001 or any subsequent catalog
<b>Example E</b>		
Admitted and earned course credit at an Arizona community college	Summer 2004	Active
Continued at an Arizona community college	Fall 2004	Active
	Spring 2005	
Nonattendance	Fall 2005	Inactive
Readmitted and earned course credit at an Arizona community college	Spring 2006	Active
Transferred to an Arizona university	Summer 2006	Student enrolled under 2004–2005 or any subsequent catalog
<b>Example F</b>		
Admitted and earned course credit at an Arizona university	Summer 2004	Active
Nonattendance	Fall 2004	Inactive
Nonattendance	Spring 2004	Inactive
Readmitted and earned course credit at an Arizona university	Fall 2005	Active
Continued at an Arizona community college	Spring 2006	Active
		Student enrolled under 2004–2005 or any subsequent catalog

subsequent terms of continuous enrollment. Students may maintain continuous enrollment whether attending a single public community college or university in Arizona or transferring among public institutions in Arizona while pursuing their degrees.

Students transferring among Arizona public higher education institutions must meet the admission, residency, and all curricular and academic requirements of the degree-granting institution.

1. A semester in which a student earns course credit is counted toward *continuous* enrollment. Noncredit

courses, audited courses, failed courses, or courses from which the student withdraws do not count toward the determination of *continuous* enrollment for catalog purposes. See examples A and B in the “Continuous Enrollment” table, on this page.

2. Students who do not meet the minimum enrollment standard stipulated in number 1 during three consecutive semesters (fall/spring/fall or spring/fall/spring) and the intervening summer term at any public Arizona community college or university are no longer considered continuously enrolled. (Note that

## UNIVERSITY GRADUATION REQUIREMENTS

students are not obligated to enroll and earn course credit during summer terms, but summer enrollment may be used to maintain continuous enrollment status.) These students must meet requirements of the public Arizona community college or university catalog in effect at the time they are readmitted or of any single catalog in effect during subsequent terms of *continuous* enrollment after readmission. See examples C and D in the "Continuous Enrollment" table, page 89.

3. Students admitted or readmitted to a public Arizona community college or university during a summer term must follow the requirements of the catalog in effect the following fall semester or of any single catalog in effect during subsequent terms of *continuous* enrollment. See example E in the "Continuous Enrollment" table, page 89.
4. In areas of study in which the subject matter changes rapidly, material in courses taken long before graduation may become obsolete or irrelevant.
5. Course work that is more than eight years old is applicable to completion of degree requirements at the discretion of the student's major department. Departments may accept such course work, reject it, or request that the student revalidate its substance. The eight-year limit on course work applies except when program accreditation agencies limit the life of course work to fewer than eight years. Departments may also require students to satisfy current major requirements rather than major requirements in earlier catalogs when completing earlier requirements is no longer possible or educationally sound.
6. Enrollment by Arizona community college students in nontransferable courses still constitutes enrollment for purposes of determining whether the student has been continuously enrolled. For example, if a student takes two semesters of cooperative education classes, which are not transferable to the university but constitute *continuous* enrollment at the community college, the university should consider it *continuous* enrollment.
7. Exceptions made by an institution apply only to the institution that made the exception. For example, if the community college departments accepted credit that was more than eight years old, the university department to which the student transfers has the right and the obligation to reevaluate any credit more than eight years old.

Inquiries about these guidelines may be directed to the student's academic advisor.

### Declaration of Graduation

Students must file a Declaration of Graduation (DOG) using the Degree Audit Reporting System (DARS). DARS is an automated process that matches courses a student has completed with the requirements of a particular academic degree program, resulting in a report that shows the student which requirements are satisfied and which remain to be fulfilled, thus providing a guide for efficient selection of courses toward graduation. For example, a student majoring

in Biology would request a Degree Audit Report that would show how his or her completed ASU and transfer course work would apply to the Biology degree program.

Each student must submit a DOG form no later than the semester in which he or she earns the 87th semester hour. The DOG process confirms the degree requirements under which the student is enrolled, as indicated on the degree audit report for that academic program and catalog year. The student should review his or her degree audit with an academic advisor to assure an accurate interpretation. Some departments may require the DOG earlier than the 87th hour. Students failing to submit the DOG are prevented from further registration.

### Application for Graduation Requirements

The following steps are required to complete the graduation process:

1. Register for the final semester.
2. Pay the graduation fee at Cashiering Services. Note the deadlines in the "University Calendar," page 17.
3. Submit the fee receipt to the Graduation Section, SSV 140, and apply for graduation. The Degree Audit Report or Program of Study is reviewed at this time and the graduation date and eligibility to graduate are verified.
4. Complete all course work listed on the Degree Audit Report or Program of Study by the graduation date.

For more information about application for graduation requirements at West campus, contact Admission and Enrollment Services, UCB 120.

Students must comply with the above requirements to graduate.

### Petition for Variance from Degree

Any student wishing to have a college or university degree requirement variance must petition the standards committee of the college in which the student is enrolled.

All petitions must originate with the student's advisor. Refer to the college sections of this catalog for college and division, school, or department requirements.

**Tempe Campus Standards Committee.** This committee advises the Office of the Executive Vice President and Provost regarding undergraduate student petitions that concern university-wide academic requirements. These requirements include but are not limited to requirements on the amount of transfer credit, graduation requirements, limits on credit by examination, and requirements for a second baccalaureate degree (see "Second Baccalaureate Degree," page 91). To petition for a variance from such university requirements, the normal department, division, school, and college forms and procedures are used. Petitions that have been denied at the college level are forwarded to the Tempe Campus Standards Committee.

### OTHER REQUIREMENTS

The separate units of ASU, such as colleges, divisions, schools, and departments, have specific requirements for graduation that must be satisfied for a baccalaureate degree. For those requirements, see the appropriate *General*



*Catalog* section. Students are encouraged to consult with an academic advisor in planning a program to ensure that it meets the various requirements. A well-planned program may enable a student to concurrently satisfy a portion of the General Studies requirement together with a portion of a college or major requirement.

## OVERVIEW OF GRADUATION REQUIREMENTS

At ASU, students take classes that fulfill four types of requirements. As illustrated in the "Graduation Requirements" diagram, on this page, some courses can fulfill two or more types of requirements, but other courses fulfill only one requirement. The total semester hours needed to graduate are represented by the largest circle. The university minimum is 120 semester hours. Some majors, however, require more than 120 semester hours.

Although the three shaded circles are equal in size and the white circle is larger than all three, the total number of semester hours for each type of requirement may vary.

**University Requirements.** The light gray circle represents university requirements. The General Studies requirement and the First-Year Composition requirement are among these requirements. For more information, see "General Studies," page 92.

**College Requirements.** The medium gray circle represents college requirements. Some colleges and schools have additional requirements, especially the College of Liberal Arts and Sciences. It is important to understand the appropriate college's requirements.

**Major.** The dark gray circle represents the requirements of the major. The semester hours required for a major may be as low as 30 hours or as high as 63 hours.

**Electives/Minor.** The white circle represents electives and the requirements of a minor. A minor typically adds an additional 18 to 25 semester hours. Though every student must eventually declare a major, a minor is not required. For more information on minors, see "Minors, Certificates, and Interdisciplinary Studies," page 117. Some courses, while providing semester hours toward graduation, fall outside the shaded circles and are not required in a program for graduation. These courses are electives. Some majors leave no room for electives within the minimum 120 semester hours required to graduate.

## GENERAL GRADUATION INFORMATION

**Graduation with Academic Recognition.** An undergraduate student must have completed at least 56 semester hours of resident credit at ASU to qualify for graduation with academic recognition for a baccalaureate degree.

The cumulative GPA determines the designation, as shown in the "Academic Recognition" table below.

Academic Recognition	
Cumulative GPA	Designation
3.40–3.59	<i>cum laude</i>
3.60–3.79	<i>magna cum laude</i>
3.80–4.00	<i>summa cum laude</i>

The cumulative GPA for these designations is based on only ASU resident course work. For example, ASU independent learning course grades are not calculated in the honors GPA. All designations of graduation with academic recognition are indicated on the diploma and the ASU transcript. Graduation with academic recognition applies only to undergraduate degrees.

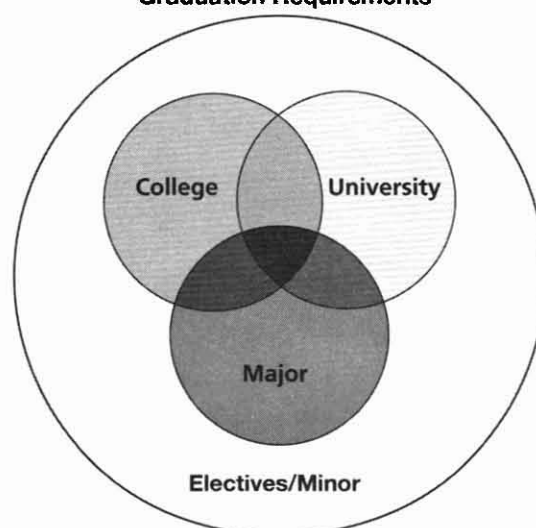
A student who has a baccalaureate degree from ASU and is pursuing a second baccalaureate degree at ASU (with a minimum of 30 hours of resident credit) is granted academic recognition on the second degree based on the semester hours earned subsequent to the posting of the first degree. If fewer than 56 semester hours are completed at ASU subsequent to completion of the first ASU degree, the level of academic recognition can be no higher than that obtained on the first degree. If 56 or more semester hours are completed at ASU after completion of the first ASU degree, the level of academic recognition is based on the GPA earned for the second ASU degree. Inquiries about graduation with academic recognition may be directed to the Graduation Section, 480/965-3256.

**Second Baccalaureate Degree.** The student seeking a second baccalaureate degree must meet admission criteria for that degree. After conferral of the first degree, a minimum of 30 semester hours in resident credit must be successfully completed at the ASU campus from which the second baccalaureate degree will be awarded. The student must meet all degree and university requirements of the second degree.

**Concurrent Degrees.** More than one baccalaureate degree may be pursued concurrently if prior approval is given by the standards committee(s) of the college(s) offering the degrees. Students may receive concurrent degrees if they meet the minimum requirements for both degrees.

**Graduate Degrees.** See "Division of Graduate Studies," page 498, and "College of Law," page 323, for graduate degrees offered and statements of requirements for graduate degrees.

Graduation Requirements



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# General Studies

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A baccalaureate education should not only prepare students for a particular profession or advanced study, but for constructive and satisfying personal, social, and civic lives as well. In addition to depth of knowledge in a particular academic or professional discipline, students should also be broadly educated and develop the general intellectual skills they need to continue learning throughout their lives. Thus, the General Studies requirement complements the undergraduate major by helping students gain mastery of critical learning skills, investigate the traditional branches of knowledge, and develop the broad perspective that frees one to appreciate diversity and change across time, culture, and national boundaries.

Critical learning skills include proficiency in the use of language, mathematics, and quantitative methods as tools for acquiring, renewing, creating, and communicating knowledge. A broad education includes an understanding of the methods and concerns of traditional branches of knowledge—the arts and humanities, the social sciences, and the natural sciences. Developing perspective requires historical, global, and cross-cultural examination of knowledge of all kinds.

To help students achieve these educational goals, the General Studies Program includes five *core areas* and three *awareness areas*. The five *core areas* help students acquire critical lifelong learning skills and guide their exploration of the traditional branches of knowledge:

1. literacy and critical inquiry;
2. mathematics studies;
3. humanities and fine arts;
4. social and behavioral sciences; and
5. natural sciences.

The three *awareness areas* promote appreciation of cultural diversity within the contemporary United States, develop an international perspective, and foster an understanding of current human events through study of the past:

1. cultural diversity in the United States;
2. global awareness; and
3. historical awareness.

The courses approved by the General Studies Council (for the East and Tempe campuses) for meeting the General Studies requirement are noted in the “General Studies Courses” table, page 94; in the course descriptions; and in the *Schedule of Classes* each academic term. The courses approved for the West campus can be found in the *West Campus Catalog* and in the *Schedule of Classes*.

## Meeting the General Studies Requirement

All students enrolled in a baccalaureate degree program must successfully complete a minimum of 35 semester hours of approved General Studies courses. Many General Studies courses are approved as satisfying more than one requirement. The following conditions govern the application of courses toward the General Studies requirement:

1. A single course may be used to satisfy one core area and a maximum of two awareness area requirements.
2. A single course may be used to satisfy a maximum of two awareness area requirements.
3. A single course cannot be used to satisfy two core area requirements, even if it is approved for more than one core area.

There is no limit to the number of advanced placement (AP) or College-Level Examination Program (CLEP) credits that can be used to meet the General Studies requirement; see “Credit by Examination,” page 73. However, the natural sciences (SQ and SG) and literacy and critical inquiry (L) portions of the General Studies requirement are not satisfied by CLEP.

## FIVE CORE AREAS

### Literacy and Critical Inquiry (L)

Literacy is competence in written and oral discourse; critical inquiry is the gathering, interpretation, and evaluation of evidence. The literacy and critical inquiry requirement helps students sustain and extend their ability to reason critically and communicate clearly through language.

**L Requirement (Six Semester Hours).** Students must complete six semester hours from courses designated as L, at least three semester hours of which must be chosen from approved upper-division courses, preferably in their major. Students must have completed ENG 101, 105, or 107 to take an L course.

### Mathematical Studies (MA and CS)

This core area has two categories: (1) Mathematics (MA) is the acquisition of essential skill in basic mathematics and requires the student to complete a course in college mathematics or precalculus or to demonstrate a higher level of skill by completing a course for which college algebra is a prerequisite; and (2) computer/statistics/quantitative applications (CS) applies mathematical reasoning and requires students to complete a course in either the use of statistics/quantitative analysis or the use of the computer to assist in serious analytical math work.



**MA and CS Requirement (Six Semester Hours).** This requirement has two parts: (1) at least three semester hours must be selected from courses designated MA, and at least three semester hours must be selected from courses designated CS; and (2) all students are expected to fulfill the MA requirement by the time they accumulate 30 hours of credit in residence at ASU. Any student who has more than 30 hours of resident ASU credit and has not fulfilled the mathematics (MA) requirement must enroll in an MA course or an appropriate prerequisite and continue to do so every semester until the mathematics requirement is met. College officers may grant waivers to the immediate and continual enrollment requirement only when there are scheduling conflicts detrimental to the student's academic progress.

### **Humanities and Fine Arts (HU)**

The study of the humanities and the disciplines of art and design deepen awareness of the complexities of the human condition and its diverse histories and cultures. Courses in the humanities are devoted to the productions of human thought and imagination, particularly in philosophical, historical, religious, and artistic traditions. Courses with an emphasis in fine arts and design are devoted to the study of aesthetic experiences and the processes of artistic creation. They may also feature a design emphasis in which material culture is studied as a product of human thought and imagination.

**HU Requirement.** The requirements for humanities and fine arts (HU) are combined with the requirements for social and behavioral sciences (SB). See "Combined HU and SB Requirement," on this page.

### **Social and Behavioral Sciences (SB)**

The social and behavioral sciences provide scientific methods of inquiry and empirical knowledge about human behavior, within society and individually. The forms of study may be cultural, economic, geographic, historical, linguistic, political, psychological, or social. The courses in this area address the challenge of understanding the diverse natures of individuals and cultural groups who live together in a world of diminishing economic, linguistic, military, political, and social distance.

**Combined HU and SB Requirement (15 Semester Hours).** A total of 15 semester hours must be completed in the following two core areas: (1) humanities and fine arts (HU) and (2) social and behavioral sciences (SB). Two conditions must be satisfied: (1) six semester hours must be taken in one of these two core areas and nine hours in the other core area; and (2) three of the 15 semester hours must be at the upper-division level.

### **Natural Sciences (SQ and SG)**

The natural sciences help students appreciate the scope and limitations of science and its contributions to society. Natural science areas of study include anthropology, astronomy, biology, biochemistry, chemistry, experimental psychology, geology, microbiology, physical geography, physics, and plant biology. Knowledge of methods of scientific

inquiry and mastery of basic scientific principles and concepts are stressed, specifically those that relate to matter and energy in living and nonliving systems. Firsthand exposure to scientific phenomena in the laboratory is important in developing and understanding the concepts, principles, and vocabulary of science.

General Studies courses that satisfy the natural science requirement are given one of two classifications: quantitative and general.

**Natural Science-Quantitative (SQ).** These laboratory courses include a substantial introduction to the fundamental behavior of matter and energy in physical and biological systems.

**Natural Science-General (SG).** These laboratory courses cover aspects of scientific inquiry that lend themselves to more qualitative or descriptive discussions of science.

**SQ and SG Requirement (Eight Semester Hours).** Eight semester hours of courses designated SQ or SG must be selected. Of these, at least four semester hours must be taken from the SQ category.

## **THREE AWARENESS AREAS**

Students must complete courses that satisfy each of the three awareness areas. Courses that are listed for a core area and one or more awareness area may satisfy each of these requirements concurrently, up to a maximum of two of the awareness areas listed for that course.

### **Cultural Diversity in the United States (C)**

The objective of the cultural diversity requirement is to promote awareness and appreciation of cultural diversity within the contemporary United States. The objective is accomplished through the study of the cultural, social, or scientific contributions of women and minority groups, examination of their experiences in the United States, or exploration of successful or unsuccessful interactions between and among cultural groups. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and also help students to achieve greater mutual understanding and respect.

### **Global Awareness (G)**

The objective of the global awareness requirement is to help students recognize the need for an understanding of the values, elements, and social processes of cultures other than that of the United States. The global awareness area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

### **Historical Awareness (H)**

The objective of the historical awareness requirement is to help students develop knowledge of the past that can be useful in shaping the present and future. History is present in languages, art, music, literature, philosophy, religion, and the natural sciences, as well as in the social science traditionally called history.

## GENERAL STUDIES

### Transfer Credit

The Arizona General Education Curriculum (AGEC), offered by Arizona community colleges, is composed of 35 semester hours of lower-division general education course work. Students who complete the AGEC have fulfilled the ASU First-Year Composition requirement and all lower-division portions of the General Studies requirement. Students must still take six upper-division semester hours (three for L and three for SB or HU) to complete the ASU General Studies requirement. If students transfer from Arizona community colleges without completing AGEC or from other accredited postsecondary institutions, they receive credit for General Studies based on course-by-course equivalency. See "Arizona General Education Curriculum (AGEC)," page 70.

### College or School, and Major Requirements

In addition to General Studies requirements, students must also complete college or school, and major requirements. Students are encouraged to work with their academic advisors to develop a program of study that efficiently meets all graduation requirements. A well-planned program should enable a student to concurrently satisfy requirements at the university, college, or school levels, and within their major.

### GENERAL STUDIES COURSES

The East and Tempe campus courses in the "General Studies Courses" table below, satisfy the requirements of the five core areas and three awareness areas. General Studies courses are regularly reviewed. Since courses are occasionally added to and deleted from the list, students should always consult the *Schedule of Classes* each semester to see

which courses currently meet the General Studies requirement.

A student receives the General Studies credit a course carries in the semester in which the course is taken.

The "Key to General Studies Credit Abbreviations" table, on this page" defines the abbreviations used. General Studies courses are also identified following course descriptions.

The campus codes "M" (for Tempe campus) and "W" (for West campus) identify the campus that maintains academic control over the course (i.e., course content, registration restrictions, General Studies designations, and other curricular matters). The campus code is not used in the catalogs but appears in the *Schedule of Classes*, on transcripts, and other enrollment and registration records.

### Key to General Studies Credit Abbreviations

Code	Description
L	Literacy and critical inquiry core courses
MA	Mathematics core courses
CS	Computer/statistics/quantitative applications core courses
HU	Humanities and fine arts core courses
SB	Social and behavioral sciences core courses
SQ	Natural science—quantitative core courses
SG	Natural science—general core courses
C	Cultural diversity in the United States courses
G	Global awareness courses
H	Historical awareness courses
/	Or
,	And

### General Studies Courses

		L	MA	CS	HU	SB	SQ	SG	C	G	H
---	493 Honors Thesis (See "Honors Courses," page 63. Only three semester hours may fulfill L requirement.)	L									
ABS	130 Introduction to Environmental Science						SQ				
	225 Soils (if credit also earned in ABS 226)						SQ				
	226 Soils Laboratory (if credit also earned in ABS 225)						SQ				
	260 Fundamentals of Urban Horticulture							SG			
	350 Applied Statistics			CS							
	480 Ecosystem Management and Planning	L									
ACC	430 Taxes and Business Decisions	L									
AES	301 Air Force Leadership Studies I	L									
	303 Air Force Leadership Studies II	L									
	401 National Security Affairs	L									
AFH	202 Art of Africa, Oceania, and the Americas (Cross-listed as ARS 202)				HU					G	H
	333 American Ethnic Literature (Cross-listed as ENG 333)	L			HU				C		
	347 Jazz in America (Cross-listed as MUS 347)				HU				C		
	353 African American Literature: Beginnings Through the Harlem Renaissance (Cross-listed as ENG 353)	L			HU				C		
	354 African American Literature: Harlem Renaissance to the Present (Cross-listed as ENG 354)	L			HU				C		
	459 Studies in African American/Caribbean Literatures: African American Short Story (Cross-listed as ENG 459)	L									
AFR	210 Introduction to African American Studies								C		

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(AFR)	317					SB			C		H
	375					SB			C		
	460								C		
	493										
		L									
AFS	202					SB			C		H
	210								C		
	363					SB			C		H
	364					SB			C		H
	366					SB				G	H
	370					SB			C		
	466					SB				G	H
AGB	161			CS							
	258									G	
	360			CS							
	414									G	
	450										
	451			CS							
	455					SB					
AIS	180								C		
	280								C		
AMT	308									G	
ANP	236			CS							
APA	200				HU	SB			C		
	210								C		
	310				HU				C		
	315				HU				C		
	330					SB			C		
	340				HU				C		
	360				HU	SB			C		
	450					SB			C		
APH	100				HU					G	H
	200				HU					G	
	300				HU					G	
	304				HU						
	305				HU						H
	313				HU					G	H
	314				HU					G	H
	411										H
	414										H
	441				HU						
	444				HU						
	446				HU						
	447				HU						
APM	301			CS							
ARA	311				HU						
	488				HU						
ARB	201									G	
	202									G	
ARS	100				HU						
	101				HU						H
	102				HU						H
	201				HU					G	H
	202				HU					G	H
	250				HU						
	300				HU						
	302				HU					G	H
	340				HU						H

# GENERAL STUDIES

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(ARS) 400	History of Printmaking				HU						H
402	Art of Ancient Egypt				HU						H
404	Greek Art				HU						H
406	Roman Art				HU						H
410	Early Christian and Byzantine Art				HU						
412	Early Medieval Art				HU						H
414	Romanesque Art				HU						H
416	Gothic Art				HU						
418	Renaissance Art in Northern Europe				HU						
420	Early Renaissance Art in Italy				HU						H
422	Italian High Renaissance Art and Mannerism				HU						
424	Italian Baroque Art				HU						
426	Art of the 17th Century in Northern Europe				HU						H
428	Art of the 18th Century				HU						H
430	Art of Spain and Its Colonies				HU						H
432	19th-Century French Art and Culture				HU						H
434	Art and Visual Culture of 19th Century				HU						
436	The Artist, War, and Revolution (Versailles to Vietnam)				HU						
438	Art of the 20th Century I				HU						H
439	Art of the 20th Century II				HU						H
442	Critical Issues in American Painting				HU						
458	Critical Theories in the Visual Arts				HU						
462	Pre-Columbian Art				HU						H
465	Native North American Art				HU				C		H
466	Native American Art of the Southwest				HU				C		H
468	Art of the Arctic and Northwest Coast				HU				C		H
469	Mexican Art				HU						H
472	Art of China				HU						
473	Art of Japan				HU						
475	Chinese Painting				HU						
480	Research Methods	L									
485	Women in the Visual Arts	L									
ART 346	3-D Computer Imaging and Animation			CS							
470	Computer Animation Portfolio			CS							
ASB 102	Introduction to Cultural and Social Anthropology					SB				G	
202	Ethnic Relations in the United States (Cross-listed as AFS 202)					SB			C		H
211	Women in Other Cultures				HU	SB				G	
222	Buried Cities and Lost Tribes: Our Human Heritage				HU	SB				G	H
223	Buried Civilizations of the Americas				HU	SB				G	H
231	Archaeological Field Methods							SG			
240	Introduction to Southeast Asia (Cross-listed as GCU 240/HST 240/POS 240/REL 240)				HU	SB				G	
242	Asian American Experiences: An Anthropological Perspective								C		
302	Ethnographic Field Study in Mexico	L				SB				G	
311	Principles of Social Anthropology					SB					
321	Indians of the Southwest	L				SB			C		H
322	Peoples of Mesoamerica					SB				G	
323	Indians of Latin America					SB				G	
324	Peoples of the Pacific									G	
325	Peoples of Southeast Asia									G	
326	Human Impacts on Ancient Environments					SB					H
330	Principles of Archaeology					SB					
335	Prehistory of the Southwest					SB			C		H
337	Pre-Hispanic Civilization of Middle America				HU	SB				G	H
338	Archaeology of North America					SB					H
351	Psychological Anthropology					SB					
353	Death and Dying in Cross-Cultural Perspective				HU	SB				G	

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(ASB)	355 Shamanism, Healing, and Consciousness				HU	SB					
	361 Old World Prehistory I										H
	362 Old World Prehistory II										H
	366 African Archaeology: Precolonial Urban Culture (Cross-listed as AFS 366)					SB				G	H
	400 Cultural Factors in International Business									G	
	412 History of Anthropology	L				SB					
	416 Economic Anthropology	L				SB					
	462 Medical Anthropology: Culture and Health								C		
	466 Peoples and Cultures of Africa (Cross-listed as AFS 466)					SB				G	H
	471 Introduction to Museums	L									
	480 Introduction to Linguistics					SB					
	481 Language and Culture					SB					
	483 Sociolinguistics and the Ethnography of Communication					SB					
	489 Doing Research in Anthropology					SB					
ASC	315 Numeracy in Technology		MA								
	325 Physical Sciences in Technology						SQ				
ASM	104 Bones, Stones, and Human Evolution					SB		SG			
	301 Peopling of the World					SB					
	342 Human Biological Variation							SG			
	344 Fossil Hominids										H
	348 Social Issues in Human Genetics					SB					
	452 Dental Anthropology							SG			
	455 Primate Behavior Laboratory	L									
AST	111 Introduction to Solar Systems Astronomy (if credit also earned in AST 113)						SQ				
	112 Introduction to Stars, Galaxies, and Cosmology (if credit also earned in AST 114)						SQ				
	113 Astronomy Laboratory I (if credit also earned in AST 111 or 321)						SQ				
	114 Astronomy Laboratory II (if credit also earned in AST 112 or 322)						SQ				
	321 Introduction to Planetary and Stellar Astrophysics (if credit also earned in AST 113)						SQ				
	322 Introduction to Galactic and Extragalactic Astrophysics (if credit also earned in AST 114)						SQ				
BCH	467 Analytical Biochemistry Laboratory	L									
BIO	100 The Living World						SQ				
	187 General Biology I							SG			
	188 General Biology II						SQ				
	193 The Nature of Biological Science						SQ				
	201 Human Anatomy and Physiology I							SG			
	241 Human Genetics							SG			
	302 Cancer and Heart Disease	L									
	303 Radiation and Life	L									
	304 Radiation Medicine and Biology	L									
	314 Research Colloquium in Biology and Society I (if credit also earned in BIO 414)	L									
	316 History of Biology: Conflicts and Controversies (Cross-listed as HPS 330)										H
	318 History of Medicine (Cross-listed as HPS 331)										H
	319 Environmental Science (Nonmajor) (Cross-listed as PLB 320)									G	
	321 Introductory Ecology Laboratory	L									
	343 Genetic Engineering and Society (Cross-listed as MBB 343)	L									
	406 Computer Applications in Biology (Cross-listed as PLB 432)			CS							
	410 Techniques in Wildlife Conservation Biology	L									
	414 Research Colloquium in Biology and Society II (if credit also earned in BIO 314)	L									
	415 Biometry			CS							
	416 Professional Values in Science (Cross-listed as HPS 410)	L									
	426 Limnology	L									
	428 Biogeography	L									
	446 Principles of Human Genetics	L									
	470 Systematic Zoology	L									
	493 Honors Thesis	L									



## GENERAL STUDIES

### General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
BIS	301	Foundations of Interdisciplinary Studies	L									
	402	Senior Seminar	L									
BME	202	Global Awareness Within Biomedical Engineering Design	L			HU						
	413	Biomedical Instrumentation (if credit also earned in BME 423)	L									
	423	Biomedical Instrumentation Laboratory (if credit also earned in BME 413)	L									
BUS	301	Fundamentals of Management Communication	L									
	451	Business Research Methods	L									
CCS	101	Introduction to Chicana and Chicano Studies								C		
	111	Introduction to Chicana and Chicano Culture								C		
	210	Introduction to Ethnic Studies in the U.S. (Cross-listed as AFS 210/APA 210)								C		
	300	Chicana and Chicano Culture and Society								C		
CDE	232	Human Development					SB					
	430	Infant/Toddler Development in the Family					SB					
	437	Infant Family Assessment and Observation (Cross-listed as SWU 437)	L				SB					
CED	111	Exploration of Education					SB					
	250	Career Development	L									
CEE	486	Integrated Civil Engineering Design	L									
CET	150	Digital Systems I			CS							
CHE	461	Process Control			CS							
	462	Process Design	L									
CHI	201	Second-Year Chinese I									G	
	202	Second-Year Chinese II									G	
	313	Third-Year Chinese I									G	
	314	Third-Year Chinese II									G	
	321	Chinese Literature				HU						
	322	Chinese Literature				HU					G	
	413	Introduction to Classical Chinese				HU						
	414	Introduction to Classical Chinese				HU						
CHM	101	Introductory Chemistry						SQ				
	107	Chemistry and Society						SQ			G	
	113	General Chemistry						SQ				
	114	General Chemistry for Engineers						SQ				
	115	General Chemistry with Qualitative Analysis						SQ				
	116	General Chemistry						SQ				
	117	General Chemistry for Majors I						SQ				
	118	General Chemistry for Majors II						SQ				
	231	Elementary Organic Chemistry (if credit also earned in CHM 235)						SQ				
	235	Elementary Organic Chemistry Laboratory (if credit also earned in CHM 231)						SQ				
	240	Introduction to Physical Chemistry			CS							
	303	Environmental Chemistry Laboratory (if credit also earned in CHM 348)	L									
	348	Physical Chemistry Laboratory I (if credit also earned in only CHM 303 or both CHM 349 and 452)	L									
	349	Physical Chemistry Laboratory II (if credit also earned in CHM 348 and 452)	L									
	452	Inorganic Chemistry Laboratory (if credit also earned in CHM 348 and 349)	L									
CIS	200	Computer Applications and Information Technology			CS							
	440	Systems Design and Electronic Commerce	L									
CLS	450	Principles of Clinical Laboratory Administration (if credit also earned in CLS 460)	L									
	460	Principles of Clinical Laboratory Education (if credit also earned in CLS 450)	L									
COM	100	Introduction to Human Communication					SB					
	110	Elements of Interpersonal Communication					SB					
	222	Argumentation	L									
	225	Public Speaking	L									
	230	Small Group Communication					SB					
	241	Introduction to Oral Interpretation	L			HU						
	250	Introduction to Organizational Communication					SB					
	263	Elements of Intercultural Communication					SB			C	G	
	308	Advanced Research Methods in Communication	L									

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(COM)	316					SB			C		
	319					SB					
	320					SB					
	321	L			HU						H
	323								C		
	325	L									
	344				HU				C		
	357					SB					
	371					SB			C	G	
	400				HU				C		
	410					SB					
	411					SB					
	421				HU						
	426					SB					
	441				HU						
	445				HU						
	446				HU				C		
	450					SB					
	463					SB				G	
CON	101				HU					G	H
	389			CS							
	472	L									
	495			CS							
	496	L									
CSE	100			CS							
	110			CS							
	180			CS							
	181			CS							
	200			CS							
	210			CS							
	423	L									
	438	L									
CSH	310				HU				C		
	350				HU				C	G	
	351				HU				C		
	363	L			HU				C		
	485				HU				C		
CSS	330								C		
	331								C		
	336								C		
	432								C		H
DAH	201				HU					G	
	300				HU						
	301	L			HU						
	302	L			HU					G	
	401				HU						
DAN	423			CS							
DSC	100				HU					G	H
	101				HU					G	
	236			CS							
ECE	100			CS							
	200			CS							
	300	L									
	380			CS							
	400	L									
ECN	111					SB					
	112					SB					

# GENERAL STUDIES

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(ECN)	306	Survey of International Economics (Cross-listed as IBS 306)				SB				G	
	313	Intermediate Macroeconomic Theory				SB					
	314	Intermediate Microeconomic Theory				SB					
	331	Alternative Economic Systems				SB				G	
	360	Economic Development				SB				G	
	365	Economics of Russia and Eastern Europe				SB				G	
	384	Economics of Social Behavior				SB					
	404	History of Economic Thought				SB					
	421	Earnings and Employment				SB					
	425	Introduction to Econometrics			CS						
	436	International Trade Theory				SB				G	
	438	International Monetary Economics				SB				G	
	441	Public Finance				SB					
	475	Capstone in Economics	L								
	493	Honors Thesis	L								
EDC	340	Writing and the Professional Educator	L								
EDP	303	Human Development	L								
	310	Educational Psychology (Three hours must be taken to secure SB credit.)				SB					
	454	Statistical Data Analysis in Education			CS						
EDT	321	Computer Literacy			CS						
	323	Computer Applications			CS						
EED	498	PS: Language and Learning	L								
EEE	488	Senior Design Laboratory I (if credit also earned in EEE 489)	L								
	489	Senior Design Laboratory II (if credit also earned in EEE 488)	L								
ENG	200	Critical Reading and Writing About Literature	L			HU					
	201	World Literature			HU					G	H
	202	World Literature			HU						H
	204	Introduction to Contemporary Literature			HU						
	212	English Prose Style	L								
	215	Strategies of Academic Writing	L								
	216	Persuasive Writing on Public Issues	L								
	217	Writing Reflective Essays	L								
	218	Writing About Literature	L			HU					
	221	Survey of English Literature			HU						
	222	Survey of English Literature			HU						H
	241	Literatures of the United States to 1860			HU						
	242	Literatures of the United States, 1860–Present			HU						
	245	Popular Culture Issues	L								
	301	Writing for the Professions	L								
	303	Classical Backgrounds of English Literature			HU						
	312	English in Its Social Setting	L		HU	SB					
	313	Phonology and Morphology	L								
	321	Introduction to Shakespeare	L		HU						
	326	English Drama 1660–1800			HU						
	328	The Novel to Jane Austen			HU						H
	329	19th-Century British Fiction	L		HU						
	331	American Drama	L		HU						
	332	Major American Novels	L		HU						
	333	American Ethnic Literature (Cross-listed as AFH 333)	L		HU				C		
	342	20th-Century British and Irish Literature			HU						
	352	Short Story	L		HU						
	353	African American Literature: Beginnings Through the Harlem Renaissance (Cross-listed as AFH 353)	L		HU				C		
	354	African American Literature: Harlem Renaissance to the Present (Cross-listed as AFH 354)	L		HU				C		
	355	European Dramatic Traditions	L		HU						
	356	The Bible as Literature			HU						



## General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
(ENG) 357 Introduction to Folklore				HU						
359 American Indian Literatures	L			HU				C		
360 Western American Literature	L			HU						
361 Silent Film				HU						
362 Sound Film Genres				HU						
363 Chicana and Chicano Literature (Cross-listed as CSH 363)	L			HU				C		
364 Women and Literature				HU						
372 Document Production	L									
385 Career Development for English Majors	L									
400 History of Literary Criticism	L			HU						H
413 History of the English Language				HU						
415 Topics in Medieval Literature and Culture				HU						
416 Chaucer in Middle English				HU						
418 Renaissance Literature	L			HU						
419 English Literature in the Early 17th Century				HU						
421 Shakespeare				HU						
422 Studies in Shakespeare				HU						
423 Renaissance Drama	L			HU						
424 Milton				HU						
425 Studies in Romanticism				HU						
427 Studies in 18th-Century Literature and Culture				HU						
430 Studies in Victorian Literature and Culture	L			HU						
434 Studies in the Literature and Culture of the Americas				HU				C		
440 Studies in American Literature and Culture				HU						
444 Studies in American Romanticism				HU						
445 Studies in American Realism	L			HU						
446 Studies in Modernism				HU						
448 Studies in Irish Literature and Culture				HU						
452 Studies in the Novel				HU						
453 Studies in the American Novel				HU						
457 Studies in American Poetry				HU						
459 Studies in African American/Caribbean Literatures: African American Short Story (Cross-listed as AFH 459)	L									
461 Studies in Women and Literature				HU						
464 Studies in Drama	L			HU						
469 Science and Literature	L			HU						
470 Symbols and Archetypes in Children's Literature	L			HU						
471 Literature for Adolescents				HU						
472 Rhetorical Studies	L									
480 Methods of Teaching English: Composition	L									
482 Methods of Teaching English: Language	L									
493 Honors Thesis	L									
ETC 100 Languages of Technology			CS							
ETM 428 International Environmental Management									G	
EXW 100 Introduction to Health and Wellness (Cross-listed as HES 100/KIN 100)					SB				G	
280 Global Issues in Exercise and Wellness										
300 Foundations of Exercise and Wellness	L				SB					
310 Computer Skills and Technology for Exercise and Wellness			CS							
442 Physical Activity in Health and Disease	L									
450 Cultural and Social Issues in Exercise and Wellness					SB			C		
FAS 330 Personal Growth in Human Relationships					SB					
331 Marriage and Family Relationships					SB					
332 Human Sexuality					SB					
361 Introduction to Family/Child Research Methods	L									
370 Family, Ethnic, and Cultural Diversity (Cross-listed as AFS 370)					SB			C		
431 Parent-Adolescent Relationships					SB					
435 Advanced Marriage and Family Relationships	L				SB					

# GENERAL STUDIES

## General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
FIN	456	International Financial Management									G	
	461	Financial Cases and Modeling	L									
FLA	150	Introduction to East Asian Culture				HU					G	
	323	Survey of Literature of the Soviet Era in Translation	L			HU					G	
	400	Linguistics					SB					
	420	Foreign Literature in Translation				HU					G	
	421	Japanese Literature in Translation	L			HU					G	
FMS	340	Contemporary American Film and Popular Culture				HU						
	440	Los Angeles: Movies and Culture				HU				C		
	450	Technology, Culture, and Media	L			HU						
FRE	201	Intermediate French I									G	
	202	Intermediate French II									G	
	205	Readings in French Literature									G	
	207	French for International Professions II									G	
	311	French Conversation									G	
	312	French Composition									G	
	319	Business French									G	
	321	French Literature	L			HU						H
	322	French Literature	L			HU						
	411	Advanced Spoken French									G	
	412	Advanced Written French									G	
	415	French Civilization I				HU					G	
	416	French Civilization II				HU						
	441	French Literature of the 17th Century				HU						H
	442	French Literature of the 17th Century				HU						
	445	French Literature of the 18th Century	L			HU						
	452	French Novel of the 19th Century				HU						
	453	Theater of the 19th Century	L			HU						
	461	Modern Narrative				HU						
	462	Modern Poetry				HU						
	471	The Literature of Francophone Africa and the Caribbean	L			HU						
GCU	102	Introduction to Human Geography					SB					
	121	World Geography					SB				G	
	141	Introduction to Economic Geography					SB				G	
	240	Introduction to Southeast Asia (Cross-listed as ASB 240/HST 240/POS 240/REL 240)				HU	SB				G	
	253	Introduction to Cultural and Historical Geography					SB				G	
	322	Geography of U.S. and Canada					SB			C		
	323	Geography of Latin America					SB				G	
	325	Geography of Europe					SB				G	
	326	Geography of Asia					SB				G	
	327	Geography of Africa					SB				G	
	328	Geography of Middle East and North Africa					SB				G	
	332	Geography of Australia and Oceania					SB				G	
	344	Geography of Hispanic Americans					SB			C		
	350	The Geography of World Crises					SB				G	
	351	Population Geography					SB				G	
	352	Political Geography					SB				G	
	357	Social Geography					SB					
	359	Cities of the World I					SB				G	H
	360	Cities of the World II					SB				G	
	361	Urban Geography					SB					
	364	Energy in the Global Arena					SB				G	
	421	Geography of Arizona and Southwestern United States					SB			C		
	423	Geography of South America					SB				G	
	424	Geography of Mexico and Middle America					SB				G	
	425	Geography of the Mexican American Borderland	L				SB				G	

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(GCU)	426					SB				G	
	432					SB				G	
	441					SB					
	442					SB					
	444					SB					
	455					SB					H
	474					SB					
	495			CS							
	496	L									
GER	201									G	
	202									G	
	311									G	
	312									G	
	313									G	
	319									G	
	411									G	
	412									G	
	415				HU					G	H
	416				HU					G	H
	421				HU						
	422	L			HU						
	453				HU					G	
GIT	212			CS							
	312			CS							
GLG	101						SQ			G	
	102							SG			H
	103						SQ				
	104							SG			
	105							SG			
	110							SG		G	
	111							SG			
	402								C		
	410			CS							
	451	L									
	452	L									
GPH	111						SQ				
	210									G	
	211	L									
	212						SQ				
	213							SG			
	214						SQ				
	215							SG			
	314				HU					G	
	370			CS							
	371			CS							
	373			CS							
	381									G	
	402								C		
	414									G	
	418	L									
	433									G	
	471			CS							
	473			CS							
GRA	111				HU						

# GENERAL STUDIES

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(GRA) 345	Design Rhetoric	L									
GRK 301	Ancient Greek Literature I				HU						
302	Ancient Greek Literature II				HU						
GRN 430	Multidisciplinary Approaches to Gerontology					SB					
HCR 210	Clinical Health Care Ethics				HU						
220	Health Care Organizations (Cross-listed as HSM 220)										H
230	Culture and Health								C	G	
HEB 201	Intermediate Modern Hebrew									G	
202	Intermediate Modern Hebrew									G	
375	Contemporary Culture of Israel				HU					G	
HES 100	Introduction to Health and Wellness (Cross-listed as EXW 100/KIN 100)					SB					
HON 171	The Human Event	L			HU						H
172	The Human Event	L			HU						H
371	Freedom and Authority	L			HU						
372	French Cultural Influences	L			HU					G	
373	Heroes, Heroines, and Villains	L			HU						
374	Black and White Atlantic				HU					G	
375	Science and the Modern Self	L			HU						
376	Law, Literature, and Life	L			HU						
377	Nature in Context (Cross-listed as HPS 377)	L			HU						
378	Culture and Society in England, Ireland, and Scotland				HU					G	H
379	Romantics, Victorians, and Moderns				HU					G	
493	Honors Thesis	L									
HPS 314	Philosophy of Science (Cross-listed as PHI 314)				HU						
322	History of Science				HU						H
323	History of Science				HU						H
325	Chinese Science and Medicine (Cross-listed as HST 385)				HU					G	H
330	History of Biology: Conflicts and Controversies (Cross-listed as BIO 316)										H
331	History of Medicine (Cross-listed as BIO 318)										H
336	Exploration and Science					SB					H
377	Nature in Context (Cross-listed as HON 377)	L			HU						
410	Professional Values in Science (Cross-listed as BIO 416)	L									
HSM 220	Health Care Organizations (Cross-listed as HCR 220)										H
HST 101	Global History Since 1500									G	H
102	Western Civilization					SB					H
103	Western Civilization					SB					H
104	Western Civilization					SB				G	H
105	Slavic Civilization					SB					H
106	Asian Civilizations					SB				G	H
107	Asian Civilizations					SB				G	H
108	Introduction to Japan					SB				G	H
109	The United States to 1865					SB					H
110	The United States Since 1865					SB					H
200	Historical Themes					SB					H
201	Historical Themes in Asia					SB					H
202	Historical Themes in Europe					SB					H
203	Historical Themes in Latin America					SB					H
204	Historical Themes in the United States					SB					H
210	American Social History	L				SB					H
211	American Jewish History					SB					H
212	American Military History					SB					H
240	Introduction to Southeast Asia (Cross-listed as ASB 240/GCU 240/POS 240/REL 240)				HU	SB				G	
300	Historical Inquiry	L				SB					H
302	Studies in History					SB					H
303	Studies in Asian History					SB					H
304	Studies in European History					SB					H

## General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
(HST) 305 Studies in Latin American History					SB					H
306 Studies in United States History					SB					H
309 Exploration and Empire	L									H
310 Film as History				HU						
313 American Cultural History to 1865					SB					H
314 American Cultural History Since 1865					SB					H
315 Political History of the United States					SB					H
316 20th-Century U.S. Foreign Relations					SB				G	H
319 U.S. Urban History to 1850					SB					H
320 U.S. Urban History Since 1850					SB					H
321 Constitutional History of the United States to 1865					SB					H
322 Constitutional History of the United States Since 1865					SB					H
325 Immigration and Ethnicity in the United States					SB			C		H
327 Women in U.S. History, 1600–1880					SB			C		H
328 Women in U.S. History, 1880–1980					SB			C		H
329 Women in 20th-Century U.S. West								C		H
330 Mexican Women in the United States: Conquests and Migrations	L				SB			C		H
331 Mexican American History to 1900					SB			C		H
332 Mexican American History Since 1900					SB			C		H
333 African American History to 1865 (Cross-listed as AFS 363)					SB			C		H
334 African American History Since 1865 (Cross-listed as AFS 364)					SB			C		H
337 American Indian History to 1900					SB			C		H
338 American Indian History Since 1900					SB			C		H
341 The U.S. West in the 19th Century					SB					H
342 The U.S. West in the 20th Century					SB					H
343 The American Southwest	L				SB					H
344 Arizona					SB					H
347 Ancient Greece					SB					H
348 Rome					SB					H
349 The Early Middle Ages					SB					H
350 The Later Middle Ages					SB					H
351 Renaissance Europe	L				SB					H
352 Europe's Reformations	L				SB					H
353 The Old Regime in Europe					SB					H
354 Revolutionary Europe					SB					H
355 Total War and the Crisis of Modernity					SB				G	H
356 Europe Since 1945					SB				G	H
358 Jewish History from the Bible to 1492					SB					H
359 Jewish History from 1492 to 1948					SB				G	H
361 Witchcraft and Heresy in Europe (Cross-listed as REL 374)	L			HU						H
362 Sex and Society in Classical and Medieval Europe					SB					H
363 Sex and Society in Early Modern Europe					SB					H
364 Sex and Society in Modern Europe	L				SB					H
365 Women in Europe	L			HU	SB					H
366 England to 1689					SB					H
367 Modern Britain					SB					H
368 Culture and Imagination in European History				HU						H
370 Eastern Europe in Transition					SB				G	H
372 The Modern Middle East					SB				G	H
375 Colonial Latin America					SB					H
376 Modern Latin America					SB					H
377 Women in Colonial Latin America										H
378 Latin American Women: The National Period					SB				G	H
379 Rebellion and Revolution in South America					SB					H
380 Cultural History of Latin America					SB					H
383 China					SB					H
384 China					SB				G	H



# GENERAL STUDIES

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(HST)	385				HU					G	H
	386	L			HU						H
	387	L				SB					H
	388					SB				G	H
	391					SB				G	H
	405					SB					H
	406					SB					H
	407	L				SB					H
	408	L				SB					H
	409					SB					H
	410					SB					H
	411					SB					H
	412					SB					H
	414					SB					H
	415	L				SB			C		H
	416					SB			C		H
	417					SB			C		H
	423					SB					H
	424					SB					H
	426					SB					H
	427					SB					H
	428					SB				G	H
	429					SB				G	H
	430					SB					H
	431					SB					H
	432					SB				G	H
	435					SB					H
	436					SB				G	H
	437				HU	SB					H
	438				HU	SB				G	H
	443					SB				G	H
	445					SB				G	H
	446					SB					H
	447					SB					H
	451					SB					H
	452					SB				G	H
	453					SB				G	H
	455					SB				G	H
	456					SB				G	H
	460	L									H
	493	L									
	498	L									
HUM	110				HU						
	200				HU						
	310	L			HU						H
	312	L			HU						H
	401				HU						H
	420				HU					G	H
	462	L			HU	SB					
	465				HU						
	498	L			HU						
IBS	300									G	
	306					SB				G	
	400								C	G	
	459									G	
	493	L									
IDN	201									G	

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(IDN)	202									G	
IED	407				HU				C		
	410					SB			C		H
	422								C		
	430				HU	SB			C		
	444					SB					
	455								C		
	460				HU	SB			C		H
IEE	305			CS							
	376			CS							
	385			CS							
	463			CS							
	474			CS							
	475			CS							
	490										
		L									
IND	316				HU						H
	317				HU						H
	470										
		L									
INT	111				HU						
	121			CS							
	131					SB					
	310				HU						H
	311				HU						H
	412				HU						
ITA	201									G	
	202									G	
	311									G	
	312									G	
	314									G	
	325				HU						
	415				HU					G	
	425										
	430				HU						
	441				HU						
	443				HU						H
	446				HU						
	449				HU					G	
ITM	440									G	
JMC	201										
	202										
	301										
	315										
JPN	201									G	
	202									G	
	311									G	
	312									G	
	313									G	
	314									G	
	321				HU					G	
JUS	100					SB					
	105					SB					
	200					SB					
	301					SB					
	302			CS							
	305					SB					
	320					SB			C		
	321					SB			C		

# GENERAL STUDIES

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(JUS)	329 Domestic Violence					SB					
	350 Immigration and Justice					SB			C		
	360 Law and Social Control					SB					
	375 Crime and the Mass Media					SB					
	385 Justice and Everyday Life					SB					
	404 Imperatives of Proof	L									
	405 Economic Justice	L				SB				G	
	415 Gender and International Development	L								G	
	420 Woman, Work, and Justice					SB			C		
	425 Race, Gender, and Crime	L				SB			C		
	430 Social Protest, Conflict, and Change	L				SB			C		
	440 Administration and Justice	L									
	444 Environment and Justice	L							C		
	450 Alternatives to Incarceration	L									
	460 Feminism and Justice								C		
	463 Discretionary Justice					SB					
	465 Death Penalty in the United States	L									
	469 Political Deviance and the Law	L				SB			C		
	470 Alternative Dispute Resolution	L				SB			C		
	474 Legislation of Morality	L				SB			C		
	477 Youth and Justice	L				SB					
	479 Law and Disputing	L				SB					
KIN	100 Introduction to Health and Wellness (Cross-listed as EXW 100/HES 100)					SB					
	348 Psychological Skills for Optimal Performance					SB					
	352 Psychosocial Aspects of Physical Activity					SB			C		
	400 Teaching Physical Activity Concepts	L									
	414 Electromyographic Kinesiology	L									
	422 Motor Control in Special Populations (Cross-listed as PSY 422)	L									
	441 Physiology of Women in Sport	L									
	443 Exercise Endocrinology	L									
	448 Applied Sport Psychology	L									
	452 Exercise Psychology					SB					
	460 Theory of Strength Training	L									
KOR	201 Second-Year Korean I									G	
	202 Second-Year Korean II									G	
	250 Korean Culture and Society				HU					G	
	347 Korean Film and Literature				HU						
	350 Women of Korea										H
LAT	201 Intermediate Latin I				HU						
	202 Intermediate Latin II				HU						
	421 Roman Literature				HU						
	422 Roman Literature				HU						
MAE	453 Computer-Aided Manufacturing and Control (Cross-listed as IEE 463)			CS							
	468 Aerospace Systems Design	L									
	491 Experimental Mechanical Engineering	L									
MAT	119 Finite Mathematics		MA								
	142 College Mathematics		MA								
	170 Precalculus		MA								
	210 Brief Calculus		MA								
	251 Calculus for Life Sciences		MA								
	260 Technical Calculus I		MA								
	261 Technical Calculus II		MA								
	262 Technical Calculus III		MA								
	270 Calculus with Analytic Geometry I		MA								
	271 Calculus with Analytic Geometry II		MA								
	272 Calculus with Analytic Geometry III		MA								
	274 Elementary Differential Equations		MA								



## General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
(MAT) 275 Modern Differential Equations		MA								
290 Calculus I		MA								
300 Mathematical Structures	L									
351 Mathematical Methods for Genetic Analysis			CS							
419 Introduction to Linear Programming			CS							
421 Applied Computational Methods			CS							
423 Numerical Analysis I			CS							
425 Numerical Analysis II			CS							
427 Computer Arithmetic			CS							
451 Mathematical Modeling			CS							
MBB 245 Cellular and Molecular Biology (if credit also earned in MBB 246)						SQ				
246 Cellular and Molecular Biology Laboratory (if credit also earned in MBB 245)						SQ				
343 Genetic Engineering and Society (Cross-listed as BIO 343)	L									
490 Capstone: Issues in Biotechnology (must be taken twice to secure L credit)	L									
MCE 446 Understanding the Culturally Diverse Child								C		
MCO 110 Introduction to Mass Communication					SB					
120 Media and Society					SB					
402 Mass Communication Law	L									
418 History of Mass Communication					SB					H
430 International Mass Communication									G	
450 Visual Communication				HU						
456 Political Communication					SB					
460 Race, Gender, and Media (Cross-listed as AFR 460)								C		
473 Sex, Love, and Romance in the Mass Media					SB					
MET 416 Applied Computer-Integrated Manufacturing			CS							
MGT 400 Cultural Factors in International Business (Cross-listed as IBS 400)								C	G	
450 Changing Business Processes	L									
459 International Management (Cross-listed as IBS 459)									G	
460 Strategic Leadership	L									
MHL 201 MacLiteracy for Musicians			CS							
344 Music in World Cultures				HU					G	
352 The Evolution of Jazz										H
363 Survey of Russian Music				HU						
437 Topics in 17th-Century Music	L									
438 Topics in 18th-Century Music										H
439 Topics in 19th-Century Music	L									H
440 Music Since 1900	L									
466 North American Indian Music	L			HU				C		
MIC 205 Microbiology (if credit also earned in MIC 206)							SG			
206 Microbiology Laboratory (if credit also earned in MIC 205)							SG			
302 Advanced Bacteriology Laboratory (if credit also earned in MIC 401)	L									
401 Research Paper (if credit also earned in MIC 302)	L									
MIS 410 American Defense Policy I					SB					
412 American Defense Policy II					SB					
MKT 302 Fundamentals of Marketing Management	L									
451 Marketing Research	L									
MSE 482 Materials Engineering Design	L									
MTE 402 Service Learning								C		
MUE 381 Music Therapy Research	L									
MUS 340 Survey of Music History				HU						H
347 Jazz in America (Cross-listed as AFH 347)				HU				C		
354 Popular Music				HU						
355 Survey of American Music				HU				C		H
356 Survey of the Musical Theatre				HU						
410 History of Women in Music				HU				C		H
NTR 300 Computer Applications in Nutrition			CS							
344 Nutrition Services Management	L									

## GENERAL STUDIES

### General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(NTR)	348	Cultural Aspects of Food				SB			C		
	350	Nutrition Counseling				SB					
	448	Community Nutrition	L								
	450	Nutrition in the Life Cycle I				SB					
NUR	362	Professional Development II: Nursing Research	L								
	391	Registered Nurse Mobility I: Professional Development	L								
	461	Professional Development III: The Art of Nursing. (3)			HU						
PGS	101	Introduction to Psychology				SB					
	222	Human Sexual Behavior				SB					
	270	Psychology of Adjustment				SB					
	304	Effective Thinking	L								
	306	Environmental Psychology				SB					
	315	Personality Theory and Research				SB					
	341	Developmental Psychology				SB					
	350	Social Psychology				SB					
	351	Honors Social Psychology	L			SB					
	365	Community Psychology				SB					
	414	History of Psychology	L			SB					
	427	Psychology of Aging	L			SB					
	441	Cognitive Development	L			SB					
	443	Abnormal Child Psychology	L			SB					
	444	Adolescent Psychology and Psychopathology	L								
	445	Child Language and Drawing				SB					
	446	Social Development	L								
	451	Stereotyping, Prejudice, and Discrimination	L								
	452	Applied Social Psychology	L								
	461	Interpersonal Influence				SB					
	465	Psychology of Stress and Coping	L								
	466	Abnormal Psychology				SB					
	467	Psychology of Magical Beliefs	L								
PHI	101	Introduction to Philosophy			HU						
	103	Principles of Sound Reasoning	L		HU						
	105	Introduction to Ethics			HU						
	300	Philosophical Argument and Exposition	L								
	301	History of Ancient Philosophy			HU						H
	302	History of Modern Philosophy			HU						H
	304	Existentialism			HU						
	305	Ethical Theory			HU						
	306	Applied Ethics			HU						
	307	Philosophy of Law			HU						
	308	Philosophy of Art			HU						
	309	Social and Political Philosophy			HU						
	310	Environmental Ethics			HU						
	311	Philosophy in Literature			HU						
	312	Theory of Knowledge			HU						
	314	Philosophy of Science (Cross-listed as HPS 314)			HU						
	315	Philosophy of Language			HU						
	316	Metaphysics			HU						
	317	Philosophy of Mind			HU						
	318	Philosophy of Religion			HU						
	319	Philosophy of Computing		CS	HU						
	325	Philosophy of Social Science			HU	SB					
	332	19th-Century Philosophy			HU						
	335	History of Ethics			HU						
	402	Empiricism			HU						
	403	Contemporary Analytic Philosophy			HU						
PHS	110	Fundamentals of Physical Science					SQ				

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(PHS)	208	Patterns in Nature (Cross-listed as STE 208)					SQ				
	402	Service Learning							C		
PHY	101	Introduction to Physics					SQ				
	111	General Physics (if credit also earned in PHY 113)					SQ				
	112	General Physics (if credit also earned in PHY 114)					SQ				
	113	General Physics Laboratory (if credit also earned in PHY 111)					SQ				
	114	General Physics Laboratory (if credit also earned in PHY 112)					SQ				
	121	University Physics I: Mechanics (if credit also earned in PHY 122)					SQ				
	122	University Physics Laboratory I (if credit also earned in PHY 121)					SQ				
	131	University Physics II: Electricity and Magnetism (if credit also earned in PHY 132)					SQ				
	132	University Physics Laboratory II (if credit also earned in PHY 131)					SQ				
	150	Physics I					SQ				
	151	Physics II					SQ				
	201	Mathematical Methods in Physics I		CS							
	252	Physics III					SQ				
	334	Advanced Laboratory I (if credit also earned in PHY 420)	L								
	420	Research Paper (if credit also earned in PHY 334)	L								
PLA	101	Landscape and Society								G	
	310	History of Landscape Architecture (Cross-listed as APH 411)									H
	411	Landscape Architecture Theory and Criticism	L								
	420	Theory of Urban Design			HU						
	485	International Field Studies in Planning (Cross-listed as PUP 485) (Three hours must be taken to secure G credit.)								G	
PLB	108	Concepts in Plant Biology					SQ				
	200	Biology of Plants (if credit also earned in PLB 201)					SQ				
	201	Biology of Plants Laboratory (if credit also earned in PLB 200)					SQ				
	300	Comparative Plant Diversity	L					SG			
	320	Environmental Science (Nonmajor) (Cross-listed as BIO 319)								G	
	414	Plant Pathology	L								
	430	Statistical Analyses in Environmental Science		CS							
	432	Computer Applications in Biology (Cross-listed as BIO 406)		CS							
POR	201	Intermediate Portuguese								G	
	313	Portuguese Composition and Conversation								G	
	314	Portuguese Composition and Conversation								G	
	321	Luso-Brazilian Literature			HU						
	472	Luso-Brazilian Civilization			HU					G	
POS	101	Political Ideologies				SB					
	110	Government and Politics				SB					
	150	Comparative Government				SB				G	
	160	Global Politics				SB				G	
	220	Political Issues and Public Policy				SB					
	230	Current Issues in National Politics	L			SB					
	240	Introduction to Southeast Asia (Cross-listed as ASB 240/GCU 240/HST 240/REL 240)			HU	SB				G	
	260	Current Issues in International Politics	L			SB				G	
	270	American Legal System				SB					
	300	Contemporary Controversies in Global Politics				SB				G	
	301	Empirical Political Inquiry				SB					
	305	Politics and Film				SB					
	310	American National Government				SB					
	313	The Congress				SB					
	314	The American Presidency				SB					
	315	The Supreme Court				SB					
	316	State and Local Government				SB					
	320	Public Administration				SB					
	325	Public Policy Development				SB					

# GENERAL STUDIES

## General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
(POS) 330 Contemporary Controversies in Domestic Politics					SB					
331 Public Opinion					SB					
332 American Political Parties					SB					
333 Interest Groups					SB					
336 Voters in America					SB					
340 History of Political Philosophy I				HU						H
341 History of Political Philosophy II				HU						H
346 Problems of Democracy				HU						
350 Comparative Politics					SB				G	
351 Democratization					SB				G	
355 Russia and Successor States					SB				G	
356 European Union					SB				G	
357 South Asia Politics					SB				G	
358 Southeast Asia					SB				G	
359 African Politics and Society					SB				G	
360 World Politics					SB				G	
361 American Foreign Policy					SB				G	
364 National Security, Intelligence, and Terrorism					SB					
370 Law and Society					SB					
401 Political Statistics			CS							
410 Governing American Cities					SB					
417 The Arizona Political System					SB					
426 Elements of Public Policy					SB					
431 Campaigns and Elections					SB					
433 Money and Politics					SB					
434 Media and Politics					SB					
435 Women and Politics					SB			C		
439 Minority Group Politics in America					SB			C		
442 American Political Thought				HU						
443 Topics in Contemporary Political Theory				HU						
445 Asian Political Thought					SB				G	
451 China, Japan, and the Koreas					SB				G	
452 China					SB				G	
453 South America					SB				G	
454 Mexico					SB				G	
455 Central America and the Caribbean					SB				G	
459 South and Southern Africa					SB				G	
463 Inter-American Relations					SB				G	
465 International Organization and Law					SB				G	
467 International Security					SB				G	
468 Comparative Asian Foreign Policies					SB				G	
471 Constitutional Law I					SB					
472 Constitutional Law II					SB					
485 Political Economy					SB					
486 International Political Economy					SB				G	
498 Pro-Seminar	L									
PSY 230 Introduction to Statistics			CS							
290 Research Methods	L						SG			
330 Statistical Methods			CS							
390 Experimental Psychology	L									
420 Analysis of Behavior	L									
422 Motor Control in Special Populations (Cross-listed as KIN 422)	L									
424 Genetic Psychology	L									
425 Biological Bases of Behavior	L									
434 Cognitive Psychology	L									
437 Human Factors	L									
498 PS: Behavioral Neuroscience Research	L									

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
PUP	100				HU					G	H
	199				HU	SB				G	
	200				HU						H
	236			CS							
	301	L									
	412										H
	420				HU						
	445								C		
	452	L									
	485									G	
QBA	221			CS							
REC	120					SB					
	160					SB					
	305									G	
	330	L									
	380					SB					H
	458									G	
REL	100				HU					G	
	200	L			HU					G	
	201	L			HU						
	202				HU				C		
	203				HU						H
	210	L			HU						H
	225				HU				C		
	240				HU	SB				G	
	260				HU					G	
	270				HU						
	301				HU						
	305	L			HU						
	310				HU						H
	315	L			HU						H
	317				HU						H
	318				HU	SB			C		
	320				HU				C		H
	321				HU				C		H
	322				HU				C		
	323				HU				C		
	326				HU				C		
	330				HU				C		
	331	L			HU				C		H
	332				HU					G	
	343	L			HU					G	H
	344				HU					G	
	345				HU					G	
	350	L			HU					G	
	351	L			HU					G	
	355	L			HU						H
	365				HU						H
	366				HU					G	H
	371				HU						
	372				HU						H
	374	L			HU						H
	377				HU						H
	379				HU					G	
	381	L			HU						



## GENERAL STUDIES

### General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(REL)	382 Religion, Magic, and Science	L			HU						
	385 Contemporary Western Religious Thought				HU						
	386 America and the Holocaust				HU	SB					
	390 Women and Religion				HU					G	
	410 Judaism in Modern Times				HU						H
	420 Religion in American Life and Thought				HU						
	427 American Religious Thought				HU						H
	444 Religion in Japan				HU					G	H
	460 Studies in Islamic Religion				HU					G	
	470 Religion in the Middle Ages				HU						H
	471 Reformation and Modern Christianity				HU						H
	480 Religion and Global Politics									G	
RUS	201 Intermediate Russian									G	
	202 Intermediate Russian									G	
	211 Basic Russian Conversation									G	
	212 Basic Russian Conversation									G	
	311 Russian Composition and Conversation									G	
	312 Russian Composition and Conversation									G	
	321 Foundations of Russian Literature				HU						H
	322 Great Russian Writers of the 19th Century	L			HU						
	323 Modern Russian Literature and the Soviet Legacy	L			HU					G	
	411 Advanced Composition and Conversation I									G	
	412 Advanced Composition and Conversation II									G	
	420 Russian Poetry	L			HU						
	421 Pushkin	L			HU						
	423 Dostoyevsky	L			HU						
	424 Tolstoy	L			HU						
	425 Chekhov	L			HU						
	430 Russian Short Story	L			HU						
	441 Survey of Russian Culture	L			HU					G	H
SCA	250 Introduction to Scandinavian Culture				HU					G	H
	316 Scandinavian Cinema				HU					G	
	450 Masterpieces of Scandinavian Literature	L			HU						
SCM	432 Planning and Control Systems for Supply Chain Management	L									
SHS	367 Language Science					SB					
	465 Speech and Language Acquisition					SB					
SLV	304 Computational Linguistics of Slavic Languages			CS							
	426 Contemporary East European and Eurasian Literatures	L			HU					G	
	440 History of Slavic Languages					SB					
SOC	101 Introductory Sociology					SB					
	220 Sport and Society					SB					
	270 Racial and Ethnic Relations					SB			C		
	301 Principles of Sociology					SB					
	312 Sociology of Adolescence					SB					
	315 Courtship and Marriage					SB					
	321 Sociology of Work					SB					
	331 Environmental Sociology					SB				G	
	332 Urban Sociology					SB				G	
	333 Population					SB				G	
	334 Technology and Society					SB					
	340 The Sociology of Deviance					SB					
	341 Modern Social Problems					SB					
	352 Social Change					SB				G	H
	360 Sociological Psychology					SB					
	361 Variant Sexuality					SB					
	363 Men and Masculinity					SB					
	365 Sociology of Mass Communication					SB					

## General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(SOC)	375 Contemporary American Jewish Identities (Cross-listed as REL 318)				HU	SB			C		
	390 Social Statistics I			CS							
	391 Sociological Research					SB					
	415 The Family					SB					
	416 Marriage Problems in Contemporary Society	L				SB					
	417 Family Violence					SB					
	418 Aging and the Life Course					SB					
	420 Sociology of Religion	L				SB					
	421 Education and Society					SB					
	422 Sociology of Complex Organizations	L				SB					
	423 Social Class and Stratification	L				SB					
	424 Women and Health	L				SB					
	427 Sociology of Health and Illness	L				SB					
	429 Sociology of Law					SB					
	433 Applied Demography					SB					
	446 Sociology of Crime					SB					
	448 Epidemics and Society					SB				G	
	451 Comparative Sociology					SB				G	
	456 Political Sociology					SB				G	
	464 Sociology of Women	L				SB			C		
	474 African Americans in Modern Society					SB			C		
	483 History of Social Thought					SB					
	486 Contemporary Theory					SB					
SPA	201 Intermediate Spanish									G	
	202 Intermediate Spanish									G	
	203 Intermediate Spanish for Bilinguals									G	
	204 Intermediate Spanish for Bilinguals									G	
	207 Spanish for International Professions II									G	
	313 Spanish Conversation and Composition									G	
	314 Spanish Conversation and Composition									G	
	319 Business Correspondence and Communication									G	
	325 Introduction to Hispanic Literature				HU						
	412 Advanced Conversation and Composition									G	
	413 Advanced Spanish Grammar									G	
	420 Applied Spanish Linguistics	L									
	421 Spanish in the Southwest	L				SB			C		
	425 Spanish Literature				HU						
	426 Spanish Literature				HU						
	427 Spanish American Literature	L									
	428 Spanish American Literature	L								G	
	464 Mexican American Literature				HU						
	471 Civilization of the Spanish Southwest				HU						
	472 Spanish American Civilization				HU					G	H
	473 Spanish Civilization				HU	SB				G	
	485 Mexican American Short Story	L									
SPE	311 Orientation to Education of Exceptional Children					SB			C		
SPF	301 Culture and Schooling	L									
STE	208 Patterns in Nature (Cross-listed as PHS 208)						SQ				
STP	220 Conceptual Statistics			CS							
	226 Elements of Statistics			CS							
	326 Intermediate Probability			CS							
	420 Introductory Applied Statistics			CS							
	429 Experimental Statistics			CS							
SWU	171 Introduction to Social Work					SB					H
	295 Foundations of Social Work Practice					SB			C		
	301 Human Behavior in the Social Environment I	L				SB					
	321 Statistics for Social Workers			CS							

## GENERAL STUDIES

### General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
(SWU)	340					SB					
	374								C		
	437	L				SB					
	493	L									
THA	201									G	
	202									G	
THE	100				HU						
	220	L									
	300				HU						
	301				HU						
	320				HU						H
	321				HU						H
	403				HU						
	404									G	
	405				HU						
	406				HU				C		
	423								C		
THP	482								C		
TWC	200	L									
	301	L									
	400	L									
	401	L									
	411	L									
	421	L									
	431	L									
	446	L									
	447	L									
UNI	402								C		
VTN	201									G	
	202									G	
WSH	413				HU				C		
	464				HU				C		
	470				HU				C		
WST	100					SB			C		
	300					SB			C		
	313					SB					
	360					SB				G	
	373					SB			C		
	375					SB			C		
	377	L							C		
	378	L							C		
	380	L				SB			C		
	457	L				SB				G	
	460					SB			C		
	477					SB			C		



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# Minors, Certificates, and Interdisciplinary Studies

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Interdisciplinary studies are available to students through an interdisciplinary degree, such as the Bachelor of Interdisciplinary Studies, or an extensive choice of minors or certificates that may be taken in conjunction with other majors. Since interdisciplinary studies provide skills that support employment in a rapidly changing workplace, students are encouraged to consider these options. Consult the academic advisor in the appropriate major about the impact of enrolling in a minor or certificate program.

## MINORS

A minor is an approved, coherent concentration of academic study in a single discipline, involving substantially fewer hours of credit than a corresponding major. Most ASU colleges offer undergraduate minors in addition to majors; see the "ASU Minors" table, page 118.

Students in most majors may pursue one or more minors and, upon successful completion of the prescribed course work, have that accomplishment officially recognized on the ASU transcript at graduation if (1) the college and/or department of the minor officially certifies, through established verification procedures, that all requirements for the minor have been met and (2) the college (and, in certain colleges, the department) of the student's major allows the official recognition of the minor.

A student wishing to pursue a specific minor should consult an academic advisor in the unit offering that minor to ensure that an appropriate set of courses is taken. The student should also consult with an academic advisor in the college or department of his or her major to make sure the college or department of the major allows the recognition of the minor.

*Note:* Certain major and minor combinations may be deemed inappropriate either by the college or department of the major or minor. Inappropriate combinations include (but are not limited to) ones in which an excessive number of courses in the minor are simultaneously being used to fulfill requirements of the student's major.

## CERTIFICATES

Students may pursue some certificate programs along with a major and other certificate programs independently. Graduate certificates and postbaccalaureate certificates are available to students who already hold a bachelor's degree. For more information, see the "ASU Undergraduate Certificates" table, page 120; "ASU Postbaccalaureate Certificates" table, page 122; and "ASU Graduate Certificates" table, page 122. Graduate certificates constitute graduate work; postbaccalaureate certificates are distinct from graduate certificates and are an extension of the undergraduate curriculum.

## INTERDISCIPLINARY STUDIES

**Bachelor of Interdisciplinary Studies.** For information about the Bachelor of Interdisciplinary Studies, see "School of Interdisciplinary Studies," page 124, or "Interdisciplinary Studies—BIS," page 540.

**Energy Studies.** An opportunity for instructional and research involvement in energy matters exists through at least two curricular paths: (1) general studies, which emphasize energy as an elective beyond the scope of a chosen major (for more information, call the coordinator of interdisciplinary studies in energy, at 480/965-4548); and (2) specific studies in the College of Architecture and Environmental Design, for those pursuing the Master of Architecture degree or the Master of Science degree in Building Design.

**Environmental Studies.** The International Institute for Sustainability, established originally in 1974 as the Center for Environmental Studies, encourages and coordinates interdisciplinary environment-related activities in the natural and social sciences within the university. The institute sponsors special courses, conferences, and workshops on environmental topics. Drawing from faculty and students throughout the university, the center participates in research and community programs relating to environmental problem areas. It does not formally offer courses or a degree program. For more information, see "International Institute for Sustainability," page 44.

**Film Studies.** The Film Studies Program exists not only to provide information and experience but also to serve as a means of creative expression for the student and as a useful subject and tool in teaching. The program is not designed to produce professional filmmakers, but it may provide practical preparation for students desiring further film study at other institutions.

For more information, call the Film Studies coordinator at 480/965-7644.

**Gerontology.** The university-wide Gerontology Program brings together faculty from three campuses and several disciplines to teach courses related to adult development and aging, to collaborate on gerontological research, and to participate in projects of service to older adults. Courses related to aging are taught throughout the university by faculty who are active contributors to research, theory, and public policy and practice. For more information, see "Gerontology," page 690, call 602/543-6642, or access [www.west.asu.edu/chs/grn](http://www.west.asu.edu/chs/grn) on the Web. See also "Gerontology," page 705.

A graduate certificate and an undergraduate minor are available in Gerontology. The certificate consists of 21 semester hours—nine hours of required course work and 12

## MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Minors			
Minor	Administered By	Campus	Page
African and African American Studies	African and African American Studies Program	Tempe	346
American Indian Studies	American Indian Studies Program	Tempe	348
American Studies	Department of Language, Cultures, and History	West	688
Anthropology	Department of Anthropology	Tempe	351
Applied Biological Sciences	East College	East	541
Applied Psychology	East College	East	548
Architectural Studies	School of Architecture and Landscape Architecture	Tempe	143
Art History	School of Art	Tempe	279
Asian Languages (Chinese/Japanese)	Department of Languages and Literatures	Tempe	407
Astronomy	Department of Physics and Astronomy	Tempe	449
Biochemistry	Department of Chemistry and Biochemistry	Tempe	360
Biological Sciences	School of Life Sciences	Tempe	426
Business <sup>1</sup>	W. P. Carey School of Business	Tempe	167
Chemistry	Department of Chemistry and Biochemistry	Tempe	359
Chicana and Chicano Studies	Department of Chicana and Chicano Studies	Tempe	364
Communication	Hugh Downs School of Human Communication	Tempe	394
Communication Studies	Department of Communication Studies	West	688
Computational Mathematical Sciences	Department of Mathematics and Statistics	Tempe	439
Dance	Department of Dance	Tempe	296
Design Studies	School of Design	Tempe	149
Early Childhood Education	Division of Curriculum and Instruction	Tempe	206
Economics for Students Planning a Career in Law	Department of Economics	Tempe	366
English	Department of Language, Cultures, and History	West	688
English with a Concentration in Linguistics	Department of English	Tempe	368
English with a Concentration in Literature	Department of English	Tempe	368
Ethnic Studies	New College of Interdisciplinary Arts and Sciences	West	688
Family and Human Development	Department of Family and Human Development	Tempe	375
Film and Video Studies	Department of Interdisciplinary Arts and Performance	West	688
Food and Nutrition Management	Department of Nutrition	East	564
French	Department of Languages and Literatures	Tempe	407
General Economics	Department of Economics	Tempe	366
Geography	Department of Geography	Tempe	379
Geological Sciences	Department of Geological Sciences	Tempe	384
German	Department of Languages and Literatures	Tempe	407
Gerontology <sup>2</sup>	Gerontology Program	West	688
History	Department of History	Tempe	387
	Department of Language, Cultures, and History	West	688
Human Nutrition	Department of Nutrition	East	564
Interdisciplinary Arts and Performance	Department of Interdisciplinary Arts and Performance	West	688
Interdisciplinary Organizational Studies	Department of Social and Behavioral Sciences	West	688
Interior Design History	School of Design	Tempe	149
Italian	Department of Languages and Literatures	Tempe	407
Justice Studies	School of Justice and Social Inquiry	Tempe	397
Kinesiology	Department of Kinesiology	Tempe	402

<sup>1</sup> This minor is for nonbusiness majors only.

<sup>2</sup> This university-wide minor is administered by West campus.

## MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

### ASU Minors (continued)

Minor	Administered By	Campus	Page
Landscape Studies	School of Architecture and Landscape Architecture	Tempe	143
Life Sciences	Department of Integrated Natural Sciences	West	688
Mass Communication	Walter Cronkite School of Journalism and Mass Communication	Tempe	320
Mathematics	Department of Integrative Studies	West	688
	Department of Mathematics and Statistics	Tempe	439
Music	School of Music	Tempe	307
Philosophy	Department of Integrative Studies	West	688
	Department of Philosophy	Tempe	446
Physics	Department of Physics and Astronomy	Tempe	450
Political Science	Department of Political Science	Tempe	454
	Department of Social and Behavioral Sciences	West	688
Prelaw	College of Human Services	West	688
Psychology	Department of Psychology	Tempe	459
	Department of Social and Behavioral Sciences	West	688
Public Relations and Strategic Communications	Department of Communication Studies	West	688
Recreation Management	School of Community Resources and Development	Tempe	489
Religious Studies	Department of Religious Studies	Tempe	462
	New College of Interdisciplinary Arts and Sciences	West	688
Russian	Department of Languages and Literatures	Tempe	407
Small Business	East College	East	549
Social and Behavioral Sciences	Department of Social and Behavioral Sciences	West	688
Social Welfare	School of Social Work	Tempe	494
Sociocultural Anthropology	Department of Social and Behavioral Sciences	West	688
Sociology	Department of Social and Behavioral Sciences	West	688
	Department of Sociology	Tempe	466
Spanish	Department of Language, Cultures, and History	West	688
	Department of Languages and Literatures	Tempe	408
Special Events Management	Department of Recreation and Tourism Management	West	688
Speech and Hearing Science	Department of Speech and Hearing Science	Tempe	469
Statistics	Department of Mathematics and Statistics	Tempe	439
Theatre	Department of Theatre	Tempe	314
Tourism	School of Community Resources and Development	Tempe	489
Tourism Management	Department of Recreation and Tourism Management	West	688
Urban Planning	School of Planning	Tempe	159
Wellness Foundations	Department of Exercise and Wellness	East	556
Women and Gender Studies	Women and Gender Studies Program	Tempe	472
Women's Studies	Women's Studies Program	West	688

<sup>1</sup> This minor is for nonbusiness majors only.

<sup>2</sup> This university-wide minor is administered by West campus.

hours of electives. The minor consists of 18 semester hours—six hours of required course work and 12 hours of electives. In addition, gerontology provides students with opportunities to gain practical experience in working with elderly people. The program helps students find rewarding internships in community programs for older adults.

**BIS Concentration.** A concentration in gerontology is available under the Bachelor of Interdisciplinary Studies (BIS)

degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see “School of Interdisciplinary Studies,” page 124.

## MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

### ASU Undergraduate Certificates

Certificate	Administered By	Campus	Page
African and African American Studies Certificate	African and African American Studies Program	Tempe	346
American Indian Studies Certificate	American Indian Studies Program	Tempe	348
Asian Pacific American Studies Certificate	Asian Pacific American Studies Program	Tempe	355
Asian Studies Certificate	Center for Asian Studies	Tempe	337
Business English Certificate <sup>1</sup>	College of Extended Education	—	706
Civic Education Certificate	Department of Political Science	Tempe	453
College of Liberal Arts and Sciences Enriched Certificate	College of Liberal Arts and Sciences	Tempe	336
Dealership Management, Certificate in <sup>2</sup>	W. P. Carey School of Business	Tempe	172
Early Intervention Certificate	Department of Family and Human Development and School of Social Work	Tempe	494
East Asian Studies Certificate	Center for Asian Studies	Tempe	337
Ethics Certificate	Department of Philosophy	Tempe	446
Ethnic Studies, Certificate in	New College of Interdisciplinary Arts and Sciences	West	688
Film and Video Studies, Certificate in	Department of Interdisciplinary Arts and Performance	West	688
Fire Service Management Certificate <sup>3</sup>	Department of Information and Management Technology	East	705
Geographic Information Science Certificate	Department of Geography	Tempe	339
Hazardous Materials and Waste Management Certificate	Department of Information and Management Technology	East	582
Healthcare Organizations and Society	School of Life Sciences and the W. P. Carey School of Business	Tempe	339
Health Physics Certificate	Pre-Health Professions Office	Tempe	339
History and Philosophy of Science Certificate	School of Life Sciences	Tempe	340
Human Performance Improvement Certificate <sup>1</sup>	College of Extended Education and the American Society of Training and Development	—	706
International Business Studies, Certificate in	W. P. Carey School of Business	Tempe	178
International Studies Certificate	Department of Political Science	Tempe	454
Islamic Studies Certificate	Department of Religious Studies	Tempe	462
Jewish Studies Certificate	Jewish Studies Committee	Tempe	340
Latin American Studies Certificate	Latin American Studies Center	Tempe	340
Lesbian, Gay, Bisexual, and Transgender Studies	College of Public Program	Tempe	487
Maintenance Management Certificate <sup>1</sup>	College of Extended Education	—	706
Medieval and Renaissance Studies Certificate	Arizona Center for Medieval and Renaissance Studies	Tempe	341
Multimedia Writing and Technical Communication Certificate	East College	East	561
Nonprofit Youth and Human Service Leadership and Management: American Humanities Certificate	School of Community Resources and Development	Tempe	490
Professional Purchasing Certificate <sup>1</sup>	College of Extended Education	—	706
Public Administration and Public Management Certificate	School of Public Affairs	Tempe	491
Quality Analysis Certificate	W. P. Carey School of Business	Tempe	172
Russian and East European Studies Certificate	Russian and East European Studies Center	Tempe	341
Scandinavian Studies Certificate	Department of Languages and Literatures	Tempe	341
Small Business and Entrepreneurship Certificate <sup>2</sup>	W. P. Carey School of Business	Tempe	172

<sup>1</sup> This certificate is not for academic credit.

<sup>2</sup> This certificate is only for students in the WPCSB.

<sup>3</sup> This program is also offered through the College of Extended Education.

## ASU Undergraduate Certificates (continued)

Certificate	Administered By	Campus	Page
Southeast Asian Studies Certificate	Program for Southeast Asian Studies	Tempe	342
Spa Management	Department of Exercise and Wellness	East	557
Supervisory and Management Skills Certificate <sup>1</sup>	College of Extended Education	—	707
Symbolic Systems, Certificate in	Department of Philosophy	Tempe	342
Translation Certificate	Department of Languages and Literatures	Tempe	408
Women and Gender Studies, Certificate in	Women and Gender Studies Program	Tempe	472
Women's Studies, Certificate in	Women's Studies Program	West	688
Writing, Certificate in	Department of Language, Cultures, and History	West	688
	Department of English	Tempe	369

<sup>1</sup> This certificate is not for academic credit.

<sup>2</sup> This certificate is only for students in the WPCSB.

<sup>3</sup> This program is also offered through the College of Extended Education.

### MILITARY OFFICER TRAINING

U.S. Air Force and U.S. Army ROTC units are active on the ASU campus. See "Department of Aerospace Studies," page 343, and "Department of Military Science," page 444, for more information.

#### Defense Activity for Nontraditional Education Support.

ASU is a participating institution with Defense Activity for Nontraditional Education Support (DANTES) and is listed in the DANTES Directory of Independent Study. DANTES is an executive agency of the Department of Defense that provides educational support for the voluntary education programs of all services. The primary missions of DANTES are (1) to provide nationally recognized examination and certification programs as part of the voluntary education programs of the military services and (2) to facilitate the accessibility of high-quality independent institutions to service men and women.

### WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION

**Professional Student Exchange Program.** Arizona residents who wish to attend professional schools of dentistry, occupational therapy, optometry, osteopathy, physician assistance, and veterinary medicine may enroll in professional programs in other states or at in-state private institutions since these programs are not available at Arizona's public universities. Through the exchange, the student receives preference in admission and pays only the resident tuition fee at a public institution, or the difference between the Western Interstate Commission for Higher Education (WICHE) support fee and standard tuition at a private

school. Applicants must be legal residents of Arizona for a minimum of five years before the commencement of training, and be U.S. citizens, and must have maintained at least average grades to be eligible to be certified for support through the WICHE program. Recipients are required to practice in Arizona one year for each year of support or repay 50 percent of the funds expended on their behalf plus interest.

For an application and more information, call the Arizona Board of Regents at 602/229-2500, or access the WICHE Web site at [www.wiche.edu](http://www.wiche.edu).

**Western Undergraduate Exchange.** Arizona residents may enroll in designated two-year and four-year public institutions and programs in other participating states at a reduced tuition level. Tuition for Western Undergraduate Exchange (WUE) studies is the regular in-state tuition plus 50 percent of that amount.

In all programs, the cost to WUE students is substantially less than nonresident tuition. Students do not need to demonstrate financial need to receive the WUE tuition benefit. WUE participating states are Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

Check the WICHE Web site at [www.wiche.edu](http://www.wiche.edu) for a list of participating institutions and programs.

**Concurrent and Dual Degrees.** Graduate students have the opportunity to pursue more than one degree at the same time as part of an organized program. For more information, see the "Concurrent and Dual Degrees" table, page 515, and the *Graduate Catalog*.



## MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

### ASU Postbaccalaureate Certificates

Certificate	Administered By	Campus	Page
Accountancy, Postbaccalaureate Certificate in <sup>1</sup>	Department of Accounting and Information Systems Management	West	688
Communication and Human Relations, Postbaccalaureate Certificate in <sup>1</sup>	Department of Communication Studies	West	688
Multimedia Writing and Technical Communication, Postbaccalaureate Certificate in <sup>2</sup>	East College	East	561
Professional Accountancy, Postbaccalaureate Certificate in <sup>1</sup>	Department of Accounting and Information Systems Management	West	688

<sup>1</sup> For more information, see the *West Campus Catalog*.

<sup>2</sup> This program is also offered through the College of Extended Education.

### ASU Graduate Certificates

Certificate	Administered By	Campus	Page
African and African Diaspora Studies, Graduate Certificate in <sup>1</sup>	African and African American Studies Program	Tempe	—
Asian Studies, Graduate Certificate in <sup>1, 2</sup>	Center for Asian Studies	Tempe	—
Atmospheric Science, Graduate Certificate in <sup>1</sup>	College of Liberal Arts and Sciences and Ira A. Fulton School of Engineering	Tempe	—
Geographic Information Science, Interdisciplinary Certificate in <sup>1</sup>	College of Liberal Arts and Sciences and the Division of Graduate Studies	Tempe	—
Gerontology, Certificate in <sup>2, 3</sup>	Gerontology Program	West	690
Health Industry Leadership Graduate Certificate <sup>1</sup>	W. P. Carey School of Business	Tempe	—
Indian Law Certificate <sup>1</sup>	College of Law	Tempe	—
Institutional Research, Graduate Certificate in <sup>1</sup>	College of Education	Tempe	—
Law, Science, and Technology, Certificate in <sup>1</sup>	College of Law	Tempe	—
Linguistics, Graduate Certificate in <sup>1</sup>	Committee on Linguistics	Tempe	—
Medieval Studies Certificate <sup>1</sup>	Arizona Center for Medieval and Renaissance Studies (ACMRS)	Tempe	—
Museum Studies Certificate <sup>1</sup>	Department of Anthropology	Tempe	—
Nonprofit Leadership and Management Certificate	College of Public Programs	Tempe	487
Post-Bachelor's Artist Diploma <sup>1</sup>	School of Music	Tempe	—
Public Art, Graduate Certificate in <sup>1</sup>	Katherine K. Herberger College of Fine Arts	Tempe	—
Renaissance Studies Certificate <sup>1</sup>	ACMRS	Tempe	—
Scholarly Publishing Certificate <sup>1</sup>	Department of History	Tempe	—
Statistics, Certificate in <sup>1</sup>	Committee on Statistics and the Division of Graduate Studies	Tempe	—
Transportation Systems, Interdisciplinary Graduate Certificate in <sup>2</sup>	Committee on the Interdisciplinary Graduate Certificate in Transportation Systems and the Division of Graduate Studies	Tempe	509

<sup>1</sup> For more information, see the *Graduate Catalog*.

<sup>2</sup> This program is also offered through the College of Extended Education.

<sup>3</sup> This university-wide certificate program is administered by the West campus.

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# University College

[www.asu.edu/duas](http://www.asu.edu/duas)

Gail Hackett, PhD, Vice Provost and Dean

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<b>Academic Advising Services . . . . .</b>	<b>123</b>
<b>Academic Community Engagement Services . . . . .</b>	<b>123</b>
<b>Academic Success Programs . . . . .</b>	<b>124</b>
<b>General Studies . . . . .</b>	<b>124</b>
<b>School of Interdisciplinary Studies . . . . .</b>	<b>124</b>

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University College is a primary source of academic support for students, faculty, and staff. The college coordinates and offers academic programs and services designed to enhance the academic experience of ASU undergraduate students. The goals of University College are to play a major role in student retention, provide students the support necessary for successful completion of their first year and beyond, and offer students learning experiences that complement those provided by other academic units.

The college includes these units:

Academic Advising Services  
Academic Community Engagement Services  
Academic Success Programs  
Degree Audit Reporting System  
General Studies  
School of Interdisciplinary Studies

## ACADEMIC ADVISING SERVICES

University College Academic Advising Services provides advising for a diverse group of students, including all exploratory/undeclared students, BIS and pre-BIS majors, and students in transition who may be changing majors or transferring to ASU. Academic Advising Services also coordinates academic advising for the ASU/Maricopa Community Colleges Alliance.

Academic advising is a partnership between the student and the advisor. Each has a mutual investment in the advising and its outcome. Good academic advising is the foundation for successfully completing a bachelor's degree.

Academic advisors assist students in selecting a major by suggesting complementary choices among the offerings in the General Studies curriculum. Advisors also encourage students to explore and identify majors consistent with the students' interests, values, and goals. Advisors help students understand university academic requirements, and policies and procedures.

General advisors are located in UASB 129 and can be reached by phone at 480/965-4464, or by accessing the Web site at [www.asu.edu/duas/cas](http://www.asu.edu/duas/cas). BIS advisors are located in

UASB 203 and can be reached by phone at 480/965-1970, or by accessing the Web site at [www.asu.edu/duas/bis](http://www.asu.edu/duas/bis).

## ACADEMIC COMMUNITY ENGAGEMENT SERVICES

Academic Community Engagement Services supports community-based learning activities appropriate for and beneficial to any ASU student and provides opportunities specifically for service learning and work-study eligible students. ACES programs offer an avenue for ASU students to enrich their education as they positively impact Phoenix-area communities. For more information, call 480/727-6382.

### Service Learning Program

Students who enroll in the Service Learning Program credit-bearing internships participate in academically based service activities that

1. integrate and enhance academic curriculum and community experiences;
2. meet community-identified needs;
3. foster civic responsibility;
4. support reciprocal learning; and
5. include structured reflection time.

The Service Learning Program and associated departments offer ASU freshmen through graduate students the opportunity to develop a sense of shared mission and community with their classmates as they provide educational support and enrichment to a diverse group of Phoenix-area children and adults in structured, supervised environments. These service internships can be "linked" to many different discipline areas. Most service learning students provide after-school tutoring or lead children in hands-on science and math activities. Footnote 34 denotes service learning sections in the *Schedule of Classes*.

### America Reads and America Counts

**America Reads.** Through the America Reads program, Federal Work-Study students are paid to work one-on-one with academically at-risk children in the community. The term "at-risk" describes children in grades 1 through 9 who live in low-income areas and are likely later to drop out of high school. The goal of the America Reads tutoring program is to increase each child's literacy skills to grade level. In the after-school programs, tutors assist children with

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L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.



## UNIVERSITY COLLEGE

homework as well as create fun, hands-on activities to exercise academic skills. Tutors also assist preschool children in developing early literacy skills.

**America Counts.** Through the America Counts program, Federal Work-Study students are paid to work with academically at-risk children (grades 1–3) in the community to increase math scores and comprehension. In these after-school programs, tutors assist children with homework as well as create hands-on activities to teach math concepts in a fun way.

### ACADEMIC SUCCESS PROGRAMS

#### Campus Match

Campus Match is a first-semester fall program that gives freshmen the opportunity to attend classes in small learning communities according to their academic interest. Students choose a “cluster” of classes from a wide variety of offerings. Each cluster is limited to a maximum of 25 students who enroll in and attend classes together. All students attend a weekly peer-led seminar that facilitates their social and academic adjustment to the university.

#### Academic Success at the University Courses

The purpose of the UNI courses is to assist first-year, transfer, and reentry students in making a successful transition to the university. Students learn about university resources, policies and procedures, study skills, values and goal setting, human diversity, academic and career planning, and other skills.

#### ACADEMIC SUCCESS AT THE UNIVERSITY (UNI)

##### UNI 100 Academic Success at the University. (3)

*fall, spring, summer*

Orientation to campus resources, study skills, and other academic and social issues for college students. Introduces an understanding of human diversity, values, and perspectives as they relate to student success. Lecture, seminar, discussion. Prerequisite: freshman or sophomore or transfer student.

##### UNI 101 Student Success Seminar. (1)

*fall and summer*

Understanding human diversity, perspectives, and values as they relate to student success. Orientation to ASU resources, study skills, and academic and social issues for students. Seminar, discussion.

##### UNI 402 Service Learning. (3)

*fall and spring*

K–12 tutoring and mentoring internship related to academic course work in multiple discipline areas. Requires weekly reflective reading and writing. May be repeated for credit. Internship. Fee.

*General Studies: C*

##### UNI 484 Internship. (1–12)

*fall, spring, summer*

##### UNI 494 Special Topics. (1–4)

*fall and spring*

Topics may include the following:

- **Science is Magic Internship. (3)**  
Presents science demonstrations to K–8 children at their schools. Interns are trained by personnel from the Center for Solid State Science. This internship does not follow the format of the others.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see “Omnibus Courses,” page 63.

#### Summer Bridge

Summer Bridge is a program designed to assist first-semester freshmen in making the transition from high school to university life. Summer Bridge is a five-week program that provides a full academic curriculum in conjunc-

tion with a rich student development experience. The program assists participants in acclimating to campus, accessing student support programs and services, and enhancing classroom and personal skills.

#### Writing Across the Curriculum (WAC)

**Curriculum Development and Support.** WAC Curriculum Development and Support is designed to enhance the quality of writing and critical thinking skills of university students.

WAC specialists consult with faculty on methods of developing and integrating writing assignments into course content. The specialists also provide customized in-class writing workshops designed to assist students in researching and responding to writing assignments.

**Writing Center.** The Writing Center provides students with one-on-one and group tutoring in writing skills. Rather than proofreading or editing students’ writing, the Writing Center teaches students the skills they need to improve their writing processes and products.

### GENERAL STUDIES

All students enrolled in a baccalaureate degree program must satisfy the General Studies requirement. For more information, see “University Graduation Requirements,” page 88, and “General Studies,” page 92.

### SCHOOL OF INTERDISCIPLINARY STUDIES

The Bachelor of Interdisciplinary Studies (BIS) program is intended for the student who has academic interests that are not satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take an active role in creating their educational plans and defining their career goals. The BIS program emphasizes written communication, versatility, and critical thinking—skills desired in the 21st century workplace. Self-assessment and appraisal of opportunities to support academic and career goals are key elements in the core courses.

Students must first complete the BIS Cyber Workshop found at [www.asu.edu/duas/bis](http://www.asu.edu/duas/bis) and then meet with an advisor before declaring the BIS major. For more information, visit UASB 203, or call 480/965-1970. For information about the program at East campus, see “Interdisciplinary Studies—BIS,” page 540.

The combination of areas of concentration gives students flexibility in creating a unique program to accomplish individualized academic goals. These combinations illustrate a range of examples:

1. anthropology and religious studies;
2. communication and small business;
3. communication and sociology;
4. dance and wellness foundations;
5. economics and Spanish;
6. justice studies and political science;
7. nonprofit/youth agency administration and theatre; and
8. psychology and women’s studies.

### Basic Requirements

The BIS degree requires 120 semester hours. The major is composed of a 12-semester-hour core and a minimum of 36 semester hours in two concentrations of at least 18 semester hours each or in one double concentration. Throughout the core sequence, the student assembles a portfolio including self-assessment of progress toward career goals and an evaluation of key educational and personal activities that may apply. All core courses must be completed with a grade of "C" (2.00) or higher.

#### Core Courses

BIS 301 Foundations of Interdisciplinary Studies <i>L</i> .....	3
BIS 302 Interdisciplinary Inquiry .....	3
BIS 401 Applied Interdisciplinary Studies .....	3
BIS 402 Senior Seminar <i>L</i> .....	3
Total .....	12

### Other Requirements

In addition to the basic requirements, students must complete all university requirements, including First-Year Composition and General Studies. Early advising is recommended to facilitate selecting courses that may apply to both the General Studies requirements and the areas of concentration.

**Declaring the BIS Major.** Completing the BIS Cyber Workshop (located on the Web at [www.asu.edu/duas/bis](http://www.asu.edu/duas/bis)) and then receiving academic advising from BIS Advising Services are required before being approved to declare the BIS major. In addition, the student must

1. complete at least 56 semester hours of university credit;
2. be in academic good standing;
3. complete two courses in each concentration with a minimum grade of "C" (2.00) before enrolling in BIS 301; and
4. complete the university mathematics and First-Year Composition requirements.

A student can declare a pre-BIS major before meeting these requirements if he or she is in academic good standing.

### Approved Concentrations

Each concentration requires a minimum of 18 semester hours, with a grade of "C" (2.00) or higher. A minimum of 12 of these hours must be in upper-division courses. The concentrations—shown in the "BIS Concentrations" table, page 126—are mostly based on existing minors or certificate programs and should represent academic interests that the student wishes to integrate into a meaningful program. Concentrations based on minors or certificates with fewer than 18 hours have additional semester hours required. Complete information on each concentration is available by visiting UASB 203 or by accessing the BIS Web site at [www.asu.edu/duas/bis](http://www.asu.edu/duas/bis).

A minimum of three semesters is required to complete the core sequence. BIS 301 is taken first and is the prerequisite to BIS 302. BIS 301 and 302 are prerequisites to 401 and 402, which may be taken concurrently; however, BIS 401 is a corequisite or prerequisite for 402. To enroll in BIS

401, a student must apply for the course during the semester before desired enrollment.

### BACHELOR OF INTERDISCIPLINARY STUDIES (BIS)

#### BIS 301 Foundations of Interdisciplinary Studies. (3)

*fall and spring*

Introduces concepts and methods of interdisciplinary study by critically examining anticipated 21st-century workplace and civic trends. Lecture, seminar, discussion. Prerequisites: BIS major; 2.00 GPA.

*General Studies: L*

#### BIS 302 Interdisciplinary Inquiry. (3)

*fall and spring*

Explores interdisciplinarity and integration as applied to various approaches of human inquiry. Lecture, seminar, discussion. Prerequisite: BIS 301.

#### BIS 401 Applied Interdisciplinary Studies. (3)

*fall and spring*

Applies interdisciplinary problem-solving skills in internships, service-learning, or research; may involve individual or group projects combining both concentrations. Prerequisites: BIS 301, 302; prior application.

#### BIS 402 Senior Seminar. (3)

*fall and spring*

Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests. Lecture, seminar, discussion. Prerequisites: BIS 301, 302. Pre- or corequisite: BIS 401.

*General Studies: L*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

### Academic Good Standing

For purposes of retention, academic good standing for exploratory/undeclared and pre-BIS/BIS majors is defined in the following "Academic Good Standing" table.

#### Academic Good Standing

Total Earned Hours	Minimum Cumulative GPA
24 or fewer	1.60
25 to 55	1.75
56 or more	2.00

A student who does not maintain the minimum GPA standard is placed on academic probation or is disqualified. A student on academic probation is in conditional good standing and is permitted to enroll. A student on probation has one semester to raise his or her GPA to meet the academic good standing criteria; otherwise, the student is disqualified. A student who has been disqualified is not permitted to enroll for the fall or spring semester.

Students who wish to choose exploratory/undeclared major status must be in academic good standing as defined above. Students may remain designated as exploratory/undeclared major status until they complete 60 semester hours. Students who have not declared a major by the time they have completed 60 semester hours are placed on administrative hold, which prevents registration for future ASU semesters, until the students have declared a major.

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## UNIVERSITY COLLEGE

### BIS Concentrations

Concentration	College	Campus	Page
African and African American studies	College of Liberal Arts and Sciences	Tempe	346
American Indian studies	College of Liberal Arts and Sciences	Tempe	349
Anthropology	College of Liberal Arts and Sciences	Tempe	351
Applied biological sciences	East College	East	545
Architectural studies	College of Architecture and Environmental Design	Tempe	143
Art history	Katherine K. Herberger College of Fine Arts	Tempe	279
Asian Pacific American studies	College of Liberal Arts and Sciences	Tempe	355
Asian studies	College of Liberal Arts and Sciences	Tempe	337
Astronomy	College of Liberal Arts and Sciences	Tempe	450
Biology <sup>1</sup>	College of Liberal Arts and Sciences	Tempe	427
Business	W. P. Carey School of Business	Tempe	167
Chemistry	College of Liberal Arts and Sciences	Tempe	360
Chicana and Chicano studies	College of Liberal Arts and Sciences	Tempe	364
Chinese	College of Liberal Arts and Sciences	Tempe	408
Classical studies—Greek	College of Liberal Arts and Sciences	Tempe	337
Classical studies—Latin	College of Liberal Arts and Sciences	Tempe	339
Communication	College of Liberal Arts and Sciences	Tempe	394
Computational mathematical sciences	College of Liberal Arts and Sciences	Tempe	439
Dance	Katherine K. Herberger College of Fine Arts	Tempe	296
Design studies	College of Architecture and Environmental Design	Tempe	149
East Asian studies	College of Liberal Arts and Sciences	Tempe	337
Economics	College of Liberal Arts and Sciences	Tempe	366
Economics for students planning a career in law	College of Liberal Arts and Sciences	Tempe	366
Education	College of Education	Tempe	205
English—creative writing <sup>2</sup>	College of Liberal Arts and Sciences	Tempe	369
English—linguistics concentration <sup>2</sup>	College of Liberal Arts and Sciences	Tempe	369
English—literature concentration <sup>2</sup>	College of Liberal Arts and Sciences	Tempe	369
English—writing certificate <sup>2</sup>	College of Liberal Arts and Sciences	Tempe	369
Environmental science <sup>3, 4</sup>	—	—	—
Ethics	College of Liberal Arts and Sciences	Tempe	339
Exercise and Wellness	East College	East	556
Family studies/child development	College of Liberal Arts and Sciences	Tempe	375
Fire service management	East College	East	582
French	College of Liberal Arts and Sciences	Tempe	408
Geography <sup>5</sup>	College of Liberal Arts and Sciences	Tempe	379
Geography—environmental geography <sup>5</sup>	College of Liberal Arts and Sciences	Tempe	379
Geography—geographical information science <sup>5</sup>	College of Liberal Arts and Sciences	Tempe	379
Geography—geography for business <sup>5</sup>	College of Liberal Arts and Sciences	Tempe	379
Geography—international geography <sup>5</sup>	College of Liberal Arts and Sciences	Tempe	379
Geological sciences	College of Liberal Arts and Sciences	Tempe	384

<sup>1</sup> Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

<sup>2</sup> Students may not use more than one English concentration.

<sup>3</sup> The program may award a certificate upon completion.

<sup>4</sup> This is a double concentration.

<sup>5</sup> Students may not use more than one geography concentration.

<sup>6</sup> Although this concentration is administered by West campus, the BIS is available only to students at East and Tempe campuses.

**BIS Concentrations (continued)**

Concentration	College	Campus	Page
German	College of Liberal Arts and Sciences	Tempe	408
Gerontology <sup>6</sup>	College of Human Services	West	690
Global family <sup>3, 4</sup>	—	—	—
Hazardous materials and waste management	College of Technology and Applied Sciences	East	582
History	College of Liberal Arts and Sciences	Tempe	387
Interior design history	College of Architecture and Environmental Design	Tempe	149
International business studies <sup>3</sup>	W. P. Carey School of Business	Tempe	184
Islamic Studies	College of Liberal Arts and Sciences	Tempe	340
Italian	College of Liberal Arts and Sciences	Tempe	408
Japanese	College of Liberal Arts and Sciences	Tempe	408
Jewish studies	College of Liberal Arts and Sciences	Tempe	340
Justice studies	College of Liberal Arts and Sciences	Tempe	398
Kinesiology	College of Liberal Arts and Sciences	Tempe	402
Landscape studies	College of Architecture and Environmental Design	Tempe	143
Latin American studies	College of Liberal Arts and Sciences	Tempe	340
Lesbian, gay, bisexual, and transgender studies	College of Public Programs	Tempe	—
Mass communication	Walter Cronkite School of Journalism and Mass Communication	Tempe	320
Mathematics	College of Liberal Arts and Sciences	Tempe	439
Medieval and Renaissance studies <sup>3</sup>	College of Liberal Arts and Sciences	Tempe	341
Microbiology <sup>1</sup>	College of Liberal Arts and Sciences	Tempe	427
Multimedia writing and technical communication	East College	East	561
Music	Katherine K. Herberger College of Fine Arts	Tempe	307
Nonprofit/youth agency administration	College of Public Programs	Tempe	489
Nutrition—food and nutrition management	East College	East	564
Nutrition—human nutrition	East College	East	564
Organizational studies <sup>4</sup>	—	—	—
Philosophy	College of Liberal Arts and Sciences	Tempe	446
Philosophy—history and philosophy of science	College of Liberal Arts and Sciences	Tempe	446
Philosophy—symbolic systems	College of Liberal Arts and Sciences	Tempe	446
Physics	College of Liberal Arts and Sciences	Tempe	450
Plant biology <sup>1</sup>	College of Liberal Arts and Sciences	Tempe	427
Plant biology—environmental science and ecology <sup>1</sup>	College of Liberal Arts and Sciences	Tempe	427
Plant biology—molecular biosciences/biotechnology <sup>1</sup>	College of Liberal Arts and Sciences	Tempe	427
Political science	College of Liberal Arts and Sciences	Tempe	455
Political science—international studies	College of Liberal Arts and Sciences	Tempe	455
Psychology	College of Liberal Arts and Sciences	Tempe	459
Public administration	College of Public Programs	Tempe	492
Quality analysis	W. P. Carey School of Business	Tempe	172
Recreation management	College of Public Programs	Tempe	489

<sup>1</sup> Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

<sup>2</sup> Students may not use more than one English concentration.

<sup>3</sup> The program may award a certificate upon completion.

<sup>4</sup> This is a double concentration.

<sup>5</sup> Students may not use more than one geography concentration.

<sup>6</sup> Although this concentration is administered by West campus, the BIS is available only to students at East and Tempe campuses.

**BIS Concentrations (continued)**

Concentration	College	Campus	Page
Religious studies	College of Liberal Arts and Sciences	Tempe	462
Russian	College of Liberal Arts and Sciences	Tempe	408
Russian and East European studies	College of Liberal Arts and Sciences	Tempe	341
Scandinavian studies	College of Liberal Arts and Sciences	Tempe	341
Small business	East College	East	549
Social welfare	College of Public Programs	Tempe	494
Sociology	College of Liberal Arts and Sciences	Tempe	466
Southeast Asian studies—area studies option	College of Liberal Arts and Sciences	Tempe	342
Southeast Asian studies—language option	College of Liberal Arts and Sciences	Tempe	342
Spanish	College of Liberal Arts and Sciences	Tempe	408
Speech and hearing science	College of Liberal Arts and Sciences	Tempe	469
Statistics	College of Liberal Arts and Sciences	Tempe	439
Theatre	Katherine K. Herberger College of Fine Arts	Tempe	314
Tourism	College of Public Programs	Tempe	489
Translation (Spanish/English)	College of Liberal Arts and Sciences	Tempe	408
Urban planning	College of Architecture and Environmental Design	Tempe	159
Women and gender studies	College of Liberal Arts and Sciences	Tempe	472

<sup>1</sup> Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

<sup>2</sup> Students may not use more than one English concentration.

<sup>3</sup> The program may award a certificate upon completion.

<sup>4</sup> This is a double concentration.

<sup>5</sup> Students may not use more than one geography concentration.

<sup>6</sup> Although this concentration is administered by West campus, the BIS is available only to students at East and Tempe campuses.

Students who wish to declare pre-BIS major status must be in academic good standing as defined above. Students who wish to declare BIS major status must have 56 total semester hours completed and must have a cumulative GPA of 2.00 or higher.

**Degree Audit Reporting System (DARS)**

DARS is an online tool that provides students with consistent, accurate information regarding their academic requirements. Through this system, a degree audit is produced that matches a student's completed courses against degree program requirements. The audit allows students to assess their progress toward their degree or to determine how their earned credits would apply if they were to pursue another degree program. Undergraduate students may

obtain a degree audit on the Student Online Services Web site: [www.asu.edu/sos](http://www.asu.edu/sos). Degree audits are processed every 20 minutes.

**COLLEGE OF EXTENDED EDUCATION**

The university-wide College of Extended Education provides an interactive link between ASU and the diverse communities it serves. The college assesses lifelong learning requirements and works in partnership with campuses, other colleges, and the community to serve learners, using a network of locations, programs, schedules, and technologies.

For more information, see "College of Extended Education," page 703, or access the Web site at [www.asu.edu/xed](http://www.asu.edu/xed).

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# The Barrett Honors College

honors.asu.edu

Mark Jacobs, PhD, Dean

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Curriculum . . . . .	129
Special Programs . . . . .	129
Additional Benefits . . . . .	130
Admission . . . . .	130
Retention . . . . .	130
Course Requirements . . . . .	130
Honors Transcript Recognition . . . . .	131
Certificate Program in Philosophy, Politics, and Law . . . . .	131
Faculty and Courses . . . . .	132

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## MISSION

The Barrett Honors College is home to many of ASU's nationally ranked scholars. It is a living and learning community of scholars, caring advisors, and enthusiastic faculty. The Barrett Honors College is unique in the nation as an excellent residential liberal arts college with the vast program choices and resources of a vibrant Research Extensive institution. This powerful combination promotes and enables the best education possible for intellectually engaged students from Arizona, from America, and from the world.

The college offers talented, motivated students educational opportunities designed to enrich and further their personal academic and career goals. It is a portal through which academically talented students gain unique access to the university's human and physical resources. Transdisciplinary in nature, the college develops curricular and other learning opportunities to meet general and disciplinary undergraduate educational objectives. The college supports undergraduate research, encourages study abroad, guides students to relevant internships, and mentors applicants for fellowships and scholarships.

The Barrett Honors College serves students seeking degrees at the East campus, in southeast Mesa, Tempe campus, and the West campus, in northwest Phoenix. Students across the university take advantage of the university's full resources with the assurance of consistently distinguished teaching and research and with commensurately rigorous expectations for performance.

Students planning to seek any academic major may apply to the Barrett Honors College. Admission is by separate application directly to the Honors College.

## CURRICULUM

Students seeking to graduate from the Barrett Honors College must also graduate from a disciplinary college. The ASU honors curriculum normally allows students to finish all requirements within the 120 semester hours of credit usually required for graduation. Thirty six of those credits are honors courses—18 lower division and 18 upper division.

## SPECIAL PROGRAMS

### Lorraine W. Frank Office of National Scholarship Advisement

The Lorraine W. Frank Office of National Scholarship Advisement assists students by identifying nationally competitive programs appropriate to each person's intellectual and career goals, nurturing these prospective applicants, and advancing their candidacy. This office, administered by the college, serves the entire ASU community. ASU students regularly earn distinction in the most rigorous and prestigious scholarship competitions. Many pursue enhanced degree programs and research projects under the auspices of Goldwater or Truman Scholarships. Other students undertake postgraduate study in the United States and abroad as Rhodes, Marshall, Fulbright, Udall, National Science Foundation, or Mellon Scholars. Many others have been recognized by a range of postgraduate awards, fellowships, and assistantships. *This office does not administer any need- or merit-based student financial assistance.* For more information, call 480/965-5894.

### Undergraduate Research Opportunities

Undergraduate research and creative opportunities are available across many disciplinary programs, centers, and institutes at ASU. The Barrett Honors College maintains lists of current opportunities, available by accessing the college's Web site at [honors.asu.edu](http://honors.asu.edu). In addition, the college actively seeks new opportunities matching student training with emerging research on campus

### Study Abroad

Students in the Barrett Honors College (BHC) have exclusive access to study abroad programs that significantly enhance their educational experience. Directed and taught by BHC faculty, these programs usually occur during the first summer session and last between five and six and a half weeks and allow students to earn honors credit while overseas. The three current programs offer students the privilege

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**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## THE BARRETT HONORS COLLEGE

of studying in several of the most significant and dynamic cities in Europe. The London, Dublin, and Edinburgh program has been offered since 1995, the Paris and Loire Valley program since 1998, and the Athens, Rome, and Dubrovnik program since 2000. The International Programs Office offers semester- and year-long programs abroad for students who desire a fuller experience. Often, students who have participated in one of the BHC summer programs realize the major benefits of studying abroad and choose to continue through extended programs.

### Internships/Mentorships/Opportunities

Students in the Barrett Honors College may participate in special internship opportunities—in government, industry, and the private sector—throughout metropolitan Phoenix. The college maintains a database of special opportunities, including community service and international and cultural events. For more information, call 480/727-7659.

### Events/Programming

Students enrolled in the Barrett Honors College are given special access when important contributors to contemporary thought visit ASU. Each year the college hosts the university's premier scholar-in-residence program, the Centennial Lecture. Past guests include novelist Carlos Fuentes, paleontologist Steven Jay Gould, psychiatrist Robert Coles, microbiologist Lynn Margulis, essayist Susan Sontag, paleoanthropologist Meave Leakey, American Indian author N. Scott Momaday, Pulitzer Prize winning author David Halberstam, prolific and wide-ranging African American author and National Book Award recipient Charles Johnson, and playwright Edward Albee, a prominent innovator in modern American drama.

The college is also home to the John J. Rhodes Chair, designed to bring to the college persons who have significantly contributed to civic life and distinguished themselves as public service leaders. Students have unique opportunities to engage intellectually with these outstanding visiting lecturers. In 1998, the college was honored to have Dr. Henry A. Kissinger serve as the inaugural chair. American Indian scholar Donald Lee Fixico was the 2002 Rhodes Lecturer, followed by Jean Strause, notable biographer of J. P. Morgan in 2003, and world-renowned astronomer David Levy in 2004.

### ADDITIONAL BENEFITS

The Barrett Honors College and all its facilities and services are fully available to every student, regardless of where he or she lives. The Honors Halls of Residence offer students an integrated living-learning environment. The Barrett Honors College has its own faculty and academic advisors to serve all honors students. Classrooms, recreational and study lounges, and a state-of-the-art computing lab make up the principal facilities of the college.

Students enrolled in the Barrett Honors College receive priority at preregistration and have extended checkout privileges in the campus libraries. Honors courses in disciplinary departments are typically limited to 25 students. Honors courses (with the prefix HON) are usually limited to 19.

Students receive transcript recognition for lower-division honors studies. Students who meet all upper-division

requirements of both their disciplinary college and the Barrett Honors College receive transcript recognition of that accomplishment, as well as special acknowledgment during graduation ceremonies and collegiate honors convocations.

Participants in the honors college have diverse interests and strong records of success. Many are accepted into the nation's finest graduate and professional programs, including Chicago, Cornell, Harvard, Michigan, MIT, Northwestern, Stanford, UC-Berkeley, Virginia, Wisconsin, and Yale. Many students have published portions of their honors theses and have presented their work at national and regional meetings of scientific and honors societies.

### ADMISSION

Students who have demonstrated high levels of academic achievement in high school or college may apply for admission to the Barrett Honors College. All candidates for admission must file a separate application to the college.

Applicants are evaluated on the basis of their high school GPA (Arizona Board of Regents GPA based on 16 competency courses), high school class rank, and performance on the SAT or ACT; as well as talents that contribute to leadership and community service. Continuing ASU or transfer students are evaluated on their college GPA.

Application forms and additional information about the college and its activities are available by calling 480/965-2359 or by accessing the Web site at [honors.asu.edu](http://honors.asu.edu).

### RETENTION

Honors students must maintain high standards of academic performance and show progress toward completion of graduation requirements in their disciplinary majors and in the Barrett Honors College. Eighteen semester hours of honors courses must be completed by the time a student completes 60 hours of course work, for a student to remain in good standing. An additional 18 semester hours of upper-division courses and a thesis or creative project must be completed before graduation. Students transferring into the Barrett Honors College with 60 semester hours must complete 21 honors credits and a thesis or creative project.

The GPA requirement for graduation is 3.40 (4.00=A). Students who fall below this standard but are above 3.00 will receive reminders of this requirement. Students who have fallen below a 3.00 GPA after 45 semester hours are placed on probation and must raise their GPA to at least 3.00 to remain in the college.

### COURSE REQUIREMENTS

Honors College course requirements may be met in a variety of ways. There are two specific required courses for first year students. Only courses in which a student receives a grade of "C" (2.00) or higher may be used to meet the Barrett Honors College requirements.

Those entering the college as lower-division students must take 18 lower-division honors credits, which include HON 171 and 172, The Human Event. This cross-disciplinary seminar acquaints them with ideas that form the foundation of a university education and emphasizes critical thinking, discussion, and writing. Barrett Honors College



students complete HON 171 and 172 during their first two semesters.

Those who enter as upper-division students must take 21 honors credits, including a required 300-level honors course. Junior-level seminar courses introduce them to critical thinking, discussion, and writing in a topical area chosen by the instructor. It is expected that all students complete this course no later than the first or second semester after transferring.

Departmental courses carrying footnote number 19 in the *Schedule of Classes* are limited to honors students and others who receive special permission from the instructor to enroll. Enrollment in these courses is limited. Compared to their non-honors equivalents, these courses are designed to offer a richer, more complex intellectual experience appropriate to the discipline and the level of the course for all students enrolled. Other disciplinary honors courses group honors students in small cohorts to work on research projects of common interest.

Departmental courses carrying footnote number 18 in the *Schedule of Classes* allow honors students to contract with the instructor of designated non-honors courses to earn honors credit by pursuing enrichment activities, which may include supplemental sessions with the instructor. Footnote 18 contracts must be filed during the first four weeks of class and completed during the semester in which the course is offered. Each contract form offers guidelines to aid students and faculty in developing appropriate contracts.

Course numbers listed in the *Schedule of Classes* as 298, 492 Honors Directed Study, 493 Honors Thesis, 497 Honors Colloquium, and all classes with the HON prefix are reserved for students in the Barrett Honors College and always carry footnote 19. Students may receive credit for more than one of each of these courses in a given department.

Departmental courses with the number 493 are reserved for honors students completing their honors theses and creative projects. A student may enroll for these courses only with the approval of the sponsoring academic department and of the faculty member who serves as the student's thesis director. Course numbers listed in the *Schedule of Classes* as 493 fulfill the student's upper-division literacy and critical inquiry (L) General Studies requirement.

There are certain courses that carry automatic honors credit. These include ENG 105 (any section) and CHM 117 and 118. MAT 300, PHY 201, and PHY 333, when taken by students with 45 or fewer semester hours also carry automatic honors credit, as long as the student receives a grade "A" (4.00) or "B" (3.00). Graduate level courses automatically earn honors credit, but credit toward graduation must be approved by the department and dean of the college in which the student majors.

### HONORS TRANSCRIPT RECOGNITION

All courses used to fulfill lower-division or upper-division/graduation requirements for the Barrett Honors College must carry earned letter grades of at least "C" (2.00). A "Y" grade meets college requirements only for HON 492 Honors Directed Study and HON 493 Honors Thesis.

### Lower Division

As a lower-division honors student, 18 semester hours of honors course work must be completed within 60 earned semester hours with a cumulative ASU GPA greater than or equal to 3.40 (4.00 = A). These must include HON 171 and 172.

Students may apply upper-division honors course work toward lower-division requirements; however, those classes may not also be used to meet the Barrett Honors College upper-division/graduation requirements.

After 60 semester hours, a review of course work and GPA will be completed to determine whether the student may continue in the Barrett Honors College. Lower-division transcript recognition will be posted for those continuing honors students with a GPA of 3.40 or higher.

### Upper Division

Upper-division status is attained in one of two ways (1) satisfactory completion of lower-division course and GPA requirements, or (2) transfer into the Barrett Honors College with at least 60 semester hours. Students who enter having completed the lower-division requirements must complete 18 upper-division honors credits. Those who transfer in with 60 or more credits must complete 21 upper-division credits, one of which is an honors seminar (HON 394). All students must complete an honors thesis or creative project. Three to six of the upper-division credits must be honors thesis research (HON 492 optional, HON 493 required). Six of the upper-division honors credits must be outside the major.

### Graduation Requirements

To graduate through the Barrett Honors College, students must

1. complete all honors course requirements;
2. complete all required semester hours of honors course work with a grade of "C" (2.00) or higher (a "Y" grade is allowed for HON 492 and HON 493) unless otherwise provided for by the Barrett Honors College and the college of the student's major;
3. complete ASU graduation requirements in an academic major; and
4. earn a cumulative ASU GPA greater than or equal to 3.40 (4.00 = A).

### CERTIFICATE PROGRAM IN PHILOSOPHY, POLITICS, AND LAW

Students enrolled in Barrett Honors College may pursue the certificate in Philosophy, Politics, and Law (PPL). This interdisciplinary program affords an opportunity to engage in a focused program of study that brings analytical rigor to bear on the philosophical issues involved in law and politics. The concentration comprises six courses (18 semester hours), two of which are offered through Barrett Honors College. One of these courses, normally taken in the student's second year at ASU, is a seminar on law, justice, and

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## THE BARRETT HONORS COLLEGE

morality (HON 310); the second is a junior-senior seminar on theories of justice, or a related topic in philosophy, politics, and law, that entails an extended paper (HON 410). The remaining four courses must be approved by the PPL Council and selected from courses regularly offered in philosophy, political science, and other areas.

The PPL Council consists of the PPL director and several members of the ASU faculty whose research and teaching focus on political, legal, and moral philosophy. ASU has exceptional resources in this area, with more than a dozen faculty members—in the Department of Philosophy, the Department of Political Science, Barrett Honors College, the College of Law, and other departments—working in this field. Among them are several professors who have won teaching awards and national or international honors for their scholarship.

The PPL Program aims to sharpen the critical, conceptual, an analytical skills that law schools and graduate programs in philosophy, political science, and other fields require. By engaging students in the analysis of classical and contemporary political, legal, and moral concerns, moreover, PPL hopes to prepare them for public service, whether it be as lawyers or scholars, in government or in watchdog groups, or simply as active and responsible citizens.

### Certificate Requirements

#### Required courses

HON 310 Justice and Law.....	3
HON 410 Philosophy, Politics, and Law.....	3
Choose four of the following elective courses.....	12
HON 376 Law, Literature, and Life <i>L/HU</i> (3)	
JUS 303 Justice Theory (3)	
PHI 305 Ethical Theory <i>HU</i> (3)	
PHI 307 Philosophy of Law <i>HU</i> (3)	
PHI 309 Social and Political Philosophy <i>HU</i> (3)	
PHI 310 Environmental Ethics <i>HU</i> (3)	
PHI 335 History of Ethics <i>HU</i> (3)	
POS 340 History of Political Philosophy I <i>HU/H</i> (3)	
POS 341 History of Political Philosophy II <i>HU/H</i> (3)	
POS 346 Problems of Democracy <i>HU</i> (3)	
POS 442 American Political Thought <i>HU</i> (3)	
POS 445 Asian Political Thought <i>SB, G</i> (3)	
POS 471 Constitutional Law I <i>SB</i> (3)	
POS 472 Constitutional Law II <i>SB</i> (3)	
Total .....	18

In keeping with the interdisciplinary nature of the program, students may count no more than three courses from any one department toward the PPL certificate. The PPL director maintains a list of approved courses, and students may petition the council to add a course to that list. PPL students are encouraged but not required to write their honors thesis in the field and under the supervision of a PPL faculty member.

## The Barrett Honors College

[www.asu.edu/honors](http://www.asu.edu/honors)

480/965-2359

IRISH A121

Mark Jacobs, Dean

**Professors:** Humphrey, Jacobs, Nelson

**Assistant Administrative Professional:** Burke

**Senior Lecturers:** Bruhn, Dalton, Facinelli, Stanford, Susser

**Lecturers:** Beggs, J. Lynch, J.M. Lynch, McManus, Pickus

### HONORS (HON)

#### HON 171 The Human Event. (3)

*fall and spring*

Landmarks in the social and intellectual development of the human race, with emphasis on Western civilization. Enrollment restricted to members of the Barrett Honors College. Consult the college for applicability to disciplinary college distribution requirements.

*General Studies: L/HU, H*

#### HON 172 The Human Event. (3)

*fall and spring*

Continuation of HON 171, with emphasis on the Renaissance through the modern period. Prerequisite: HON 171.

*General Studies: L/HU, H*

#### HON 310 Justice and Law. (3)

*spring*

Philosophical study of theories of justice in relation to law and morality. Required for Certificate in Philosophy, Politics, and Law. Seminar. Prerequisites: HON 171 and 172 recommended.

#### HON 371 Freedom and Authority. (3)

*fall and spring*

Historical overview of concepts of liberty, responsibility, and power in Western societies, emphasizing 18th- to 20th-century developments. Seminar.

*General Studies: L/HU*

#### HON 372 French Cultural Influences. (3)

*summer session 1*

Explores textual and cultural artifacts formative of French culture as a series of contacts and conflicts with other peoples and lifeways. Seminar.

*General Studies: L/HU, G*

#### HON 373 Heroes, Heroines, and Villains. (3)

*fall and spring*

Examines concepts of heroic and villainous characteristics as expressed in the literature and visual arts of various cultures throughout history. Seminar.

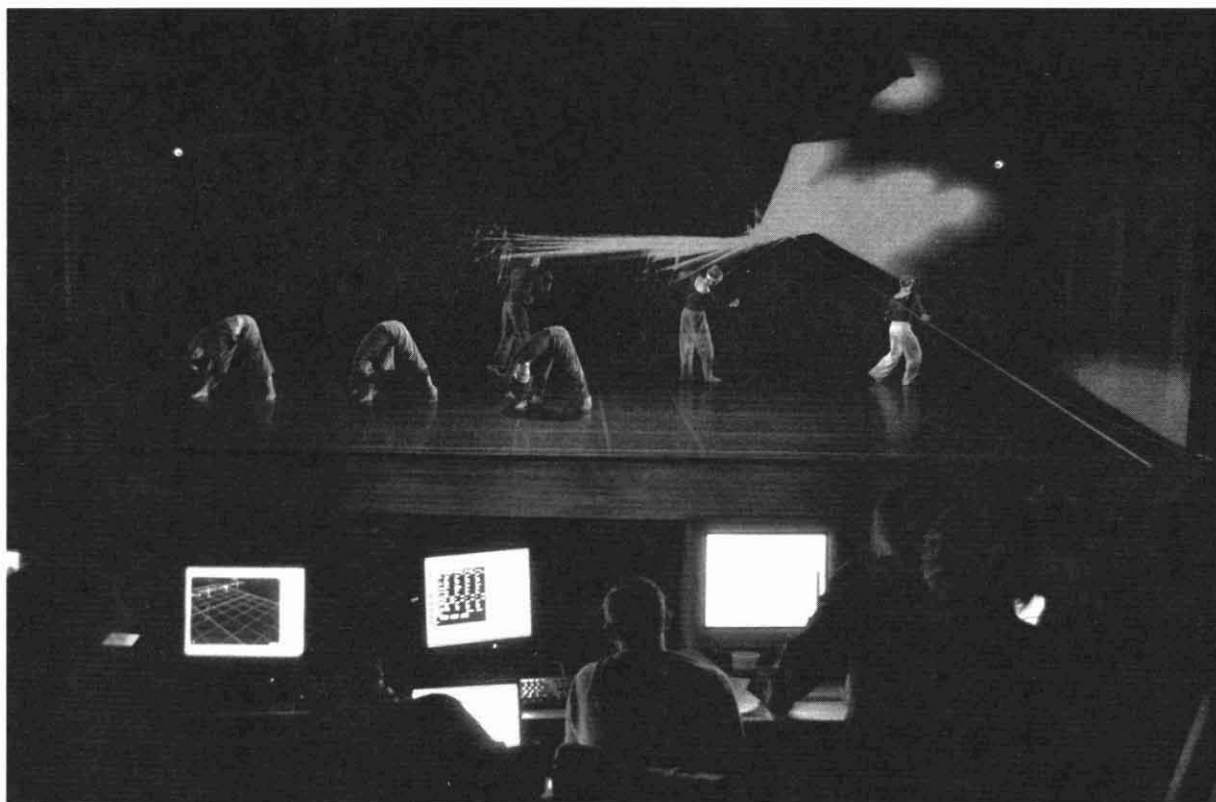
*General Studies: L/HU*

#### HON 374 Black and White Atlantic. (3)

*fall and spring*

Examines development (18th- to 20th-century) and cultural manifestations of Black/White race relations within the U.S. and between the U.S. and other nations. Seminar.

*General Studies: HU, G*



Digital artists and dancers collaborate in the Arts, Media, and Engineering motion project, a performance held in the Galvin Playhouse.

Tim Trumble photo

**HON 375 Science and the Modern Self. (3)**

*fall and spring*

Concentrates on texts of the 19th and 20th centuries; explores how scientific discourse determines our notions of self. Lecture, discussion, seminar.

*General Studies: L/HU*

**HON 376 Law, Literature, and Life. (3)**

*fall and spring*

Multidisciplinary approach to the subject of law, examining it through literature, history, and legal philosophy. Seminar.

*General Studies: L/HU*

**HON 377 Nature in Context. (3)**

*fall*

Explores perspectives on the nature of nature, the history of ecology, and the rise of environmentalism. Seminar. Cross-listed as HPS 377. Credit is allowed for only HON 377 or HPS 377.

*General Studies: L/HU*

**HON 378 Culture and Society in England, Ireland, and Scotland. (3)**

*summer*

Chronologically explores texts, events, and sites for historical and cultural impact on development of England, Ireland, Scotland, and their countries' relationships with each other. Seminar.

*General Studies: HU, G, H*

**HON 379 Romantics, Victorians, and Moderns. (3)**

*summer*

Examines the development and impact of various literatures, arts, and ideas in England, Ireland, and Scotland from the Romantic through the Modern period. Seminar.

*General Studies: HU, G*

**HON 394 Special Topics. (3)**

*fall, spring, summer*

**HON 410 Philosophy, Politics, and Law. (3)**

*spring*

Topics in political and legal philosophy, including political authority, obligation and disobedience, the nature of crime and punishment. Required for Certificate in Philosophy, Politics, and Law. Seminar. Prerequisite: HON 310 or instructor approval.

**HON 484 Internship. (1-6)**

*selected semesters*

**HON 485 Biosphere 2—Study Opportunity. (1-18)**

*fall and spring*

For students participating in the ASU-sponsored program at Biosphere 2.

**HON 492 Honors Directed Study. (1-12)**

*selected semesters*

Research and preparation for HON 493.

**HON 493 Honors Thesis. (1-6)**

*selected semesters*

*General Studies: L*

**HON 498 Pro-Seminar. (1-7)**

*selected semesters*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

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# College of Architecture and Environmental Design

[www.asu.edu/caed](http://www.asu.edu/caed)

Wellington Reiter, MArch, Dean

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School of Architecture and Landscape Architecture.....	139
School of Design .....	147
School of Planning.....	158

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## PURPOSE

The practice of architecture and environmental design is the culturally responsible shaping of our environment—from the scale of the cities in which we live to the buildings and interiors we inhabit and the artifacts and products we use. What we design must be durable, useful, beautiful, appropriate to its context, and not a waste of resources, energy, or materials. Designing our environment is an art, a technology, and a social science that has a history as long as human culture. The goals of the faculty include offering students an education that becomes the basis for life-long growth and improvement as professionals, advancing the discipline in both theory and practice, and improving the quality of the environment by making the expertise and knowledge of the faculty available to other professionals and to the public.

## ORGANIZATION

**Academic Organization.** The college is composed of three academic units:

- School of Architecture and Landscape Architecture
- School of Design
- School of Planning

Administration of the college is the responsibility of the dean, who in turn is responsible to the president of the university through the senior vice president and provost.

**College Facilities.** All of the College of Architecture and Environmental Design's programs are housed in a single complex. Facilities include the Architecture and Environmental Design Library; computer laboratories; design studios; the Gallery of Design; lecture and seminar rooms; the Media Center; offices for faculty, the administration, and student organizations; the shop; the slide collection; Materials Resource Center; and technology laboratories. The bridge between the original building and the expansion places the college's review and display space at the heart of the complex.

**Architecture and Environmental Design Library.** As a branch of the University Libraries, the Architecture and Environmental Design Library provides easy access to more than 30,000 books, periodicals, and reference materials for students, faculty, and the professional community. The library's special collections include archives of Blaine Drake, Victor Olgyay, Calvin Straub, Will Bruder, and others, as well as research materials on Paolo Soleri and Frank Lloyd Wright. The Alternative Energy Collection and the Materials Resource Center provide additional sources for research.

**Gallery of Design.** The newly renovated Gallery of Design in the College of Architecture and Environmental Design focuses exhibitions on architecture; landscape architecture; planning; and graphic, industrial, and interior design. Changing exhibitions feature top student work for each semester; faculty research and design projects; and special exhibitions from local, national, and international designers. A flat projection monitor provides a changing mural of design projects, college information, and announcements. Additional space for CAED student projects is located throughout the Architectural and Environmental Design buildings. The gallery is open Monday through Friday from 8 A.M. to 4 P.M. For more information, call 480/965-6384.

**Special Facilities.** College programs are supplemented by several special laboratories, including the computer-aided design and graphics lab; the high-bay research lab; the lighting lab; the solar research lab; the solar rooftop work area; an extensive shop equipped to handle wood, plastic, and metal; the Herberger Center for Design Research; InnovationSpace, an interdisciplinary product development laboratory; and the Joint Urban Design Program, which also has a studio at the Downtown Center at ASU. The Media Center includes traditional graphics and audiovisual equipment as well as portable gear. The slide collection, with more than 100,000 images, is available for instructional use, and the college maintains an array of materials testing equipment.

## ADMISSION

**Lower-Division Programs.** A new or transfer student who has been admitted to the university and has selected a college major is admitted to the lower-division program of his or her choice. A separate application procedure is required for entry to upper-division programs and graduate programs. Acceptance into lower-division programs does not guarantee acceptance to upper-division programs. Acceptance into lower-division programs requires a TOEFL score

College of Architecture and Environmental Design Baccalaureate Degrees and Majors

Major	Degree	Concentration	Administered By
Architectural Studies	BSD	—	School of Architecture and Landscape Architecture
Design Science*	BSD	—	School of Design
Graphic Design	BSD	—	School of Design
Housing and Urban Development	BSD	—	School of Planning
Industrial Design	BSD	—	School of Design
Interior Design	BSD	—	School of Design
Landscape Architecture	BSLA	—	School of Architecture and Landscape Architecture
Urban Planning	BSP	—	School of Planning

\* Applications for this program are not being accepted at this time.

of 500 or higher for international students whose native language is not English.

**Transfer Credits.** While the university accepts credits transferred from other accredited institutions, transfer credits are not applied to specific degree programs until reviewed and accepted by the appropriate academic units. Transfer course work must be equivalent in both content and level of offering. In addition, a review of samples of work (portfolio format) from previous studio classes is required. Students who change majors to transfer into the college or one of its program areas must have a minimum cumulative GPA of 2.50.

**Upper-Division Programs.** Admission to upper-division programs is competitive. Consult the requirements of each major for details. Students applying to more than one program must make a separate application to each and must submit separate portfolios. Students not enrolled at ASU when they apply to upper-division programs must also make a separate application to the university. Students not admitted to an upper-division program are not dismissed from the university and may reapply or transfer to other programs. Students who plan to reapply should contact a college academic advisor. Transfers into upper-division programs are considered only if vacancies occur, and such transfers are limited to students with equivalent course work who are competitive with continuing students. Acceptance into some upper-division programs requires a TOEFL score of 500 or higher for international students whose native language is not English.

## ADVISING

While the college and its academic units provide academic advising, *it is ultimately the responsibility of each student to fulfill academic and program requirements.* Advising and record keeping for lower-division programs are the responsibility of a college academic advisor (located in ARCH 115). Records for upper-division program students are kept in the appropriate academic units, and advising is provided by the school's academic advisor. General career advising is available from all faculty members.

Administration of program requirements is the responsibility of the head of the academic unit and the dean.

**Appeals Procedures.** Academic appeals and requests for variances are typically made first to the student's advisor and then, if necessary, to the head of the appropriate academic unit, the Governance and Grievance Committee, and, finally, the dean. A student who feels unjustly treated in academic or other matters relating to his or her career as a student may contact a college academic advisor or may take the grievance to the college ombudsperson.

## DEGREES

**Undergraduate.** The college offers curricula for four year degree programs: the Bachelor of Science in Design (BSD) degree in Architectural Studies, Graphic Design, Housing and Urban Development, Industrial Design, and Interior Design; the Bachelor of Science in Landscape Architecture (BSLA) degree; and the Bachelor of Science in Planning (BSP) degree in Urban Planning. Applications for the BSD degree in Design Science are not being accepted at this time. For more information, see the "College of Architecture and Environmental Design Baccalaureate Degrees and Majors" table, on this page.

Each undergraduate program is divided into lower-division and upper-division programs. Completion of a lower-division program does not guarantee advancement to an upper-division program.

## GRADUATE PROGRAMS

The faculty in the College of Architecture and Environmental Design offer the National Architectural Accrediting Board-accredited Master of Architecture (MArch) professional degree; Planning Accreditation Board-accredited Master of Environmental Planning (MEP) professional degree; MS degree in Building Design; Master of Science in Design (MSD) degree; and PhD degree in Environmental Design and Planning. For more information,

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

College of Architecture and Environmental Design Graduate Degrees and Majors

Major	Degree	Concentration <sup>1</sup>	Administered By
Architecture	MArch	—	School of Architecture and Landscape Architecture
Building Design	MS	Design knowledge and computing, energy performance and climate-responsive architecture, or facilities development and management	School of Architecture and Landscape Architecture
Design	MSD	Graphic design, industrial design, or interior design	School of Design
Environmental Design and Planning <sup>2</sup>	PhD	Design; history, theory, and criticism; or planning	College of Architecture and Environmental Design
Urban and Environmental Planning	MUEP	—	School of Planning

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> Doctoral courses for these interdisciplinary programs administered by the Tempe campus are also offered at the East campus.

see the “College of Architecture and Environmental Design Graduate Degrees and Majors” table, on this page, and the *Graduate Catalog*.

### MINORS

The faculty in the School of Architecture and Landscape Architecture offer two minors: Architectural Studies, see “Architectural Studies Minor,” page 143 and “Landscape Studies Minor,” page 143. The faculty in the School of Design offer minors in Design Studies and Interior Design History, see “Minors,” page 149. The faculty in the School of Planning offer a minor in Urban Planning. See “Minor,” page 159, for more information.

### COLLEGE OF EXTENDED EDUCATION

The university-wide College of Extended Education provides an interactive link between ASU and the diverse communities it serves. The college assesses lifelong learning requirements and works in partnership with campuses, other colleges, and the community to serve learners, using a network of locations, programs, schedules, and technologies.

For more information, see “College of Extended Education,” page 703, or access the Web site at [www.asu.edu/xed](http://www.asu.edu/xed).

### UNIVERSITY GRADUATION REQUIREMENTS

In addition to fulfilling college and major requirements, students seeking a bachelor’s degree must meet all university graduation requirements. See “University Graduation Requirements,” page 88.

#### General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy the university requirement of a minimum of 35 semester hours of approved course work in General Studies, as described under “General Studies,” page 92. Consult an advisor for an approved list of courses. General Studies courses are listed in the “General Studies Courses” table, page 94, in the course descriptions, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*.

### COLLEGE DEGREE REQUIREMENTS

College of Architecture and Environmental Design degree requirements supplement the General Studies requirement. Each curriculum offered by the college includes sufficient approved course work to fulfill the General Studies requirement.

To be eligible for the Bachelor of Science in Design (BSD), Bachelor of Science in Landscape Architecture (BSLA), or Bachelor of Science in Planning (BSP) degrees in the College of Architecture and Environmental Design, a student must have

1. attained a cumulative GPA of 2.00 or higher for all course work taken at ASU;
2. earned a “C” (2.00) or higher in each studio course; and
3. met all university degree requirements.

### MAJOR REQUIREMENTS

A student seeking the BSD, BSLA, or BSP must satisfactorily complete a curriculum of 120 semester hours.

**Special Honors at Graduation.** At the time of graduation, students with academic distinction are awarded the respective designation *cum laude*, *magna cum laude*, or *summa cum laude*. For more information, see “Graduation with Academic Recognition,” page 91.

### ACADEMIC STANDARDS

**Lower-Division Retention Standards.** A student in one of the college’s lower-division programs is placed on probation when he or she fails to maintain a cumulative GPA of 2.00. Students on probation must observe rules or limitations the college imposes on their probation as a condition of retention. If, after one semester on probation, the overall GPA is not at least 2.00 and the conditions of probation have not been met, the student is disqualified for a minimum of two full academic semesters. Appeals may be made to the college Standards and Appeals Committee; see a college advisor for the necessary appeals forms. For more information, see “Retention and Academic Standards,” page 84.

**Upper-Division Retention Standards.** Students in upper-division programs are placed on probation when *any* of the following occurs:

1. failure, incomplete, or withdrawal from any required course;
2. a semester GPA below 3.00;
3. a grade of "D" (1.00) or "E" (0.00) in a design studio, a design laboratory, or a design lecture; or
4. violation of the college *Code of Student Responsibilities* or any admission agreement.

Students on probation must observe rules or limitations that the college or academic unit places on their probation as a condition of continuation. Students may be removed from a program (but not necessarily the university) if

1. the requirements imposed are not met or the probationary semester GPA is below 3.00 after one semester on probation;
2. failures or withdrawals in required courses are not resolved at the next offering of the course;
3. they fail or withdraw from required sequential courses; or
4. incompletes in required sequential courses are not completed before the first day of class of the next semester.

A student removed from a program is not guaranteed reinstatement in the program even if probation requirements or requirements placed on readmission are fulfilled. Appeals may be made first to the appropriate academic unit and, if necessary, to the college Governance and Grievance Committee. For more information, see "Retention and Academic Standards," page 84.

**Incompletes.** Students are responsible for contacting the instructor regarding the process of requesting and fulfilling an incomplete. Tardiness in contacting the instructor may result in a failing grade. Students must obtain an official "Request for Grade of Incomplete" form from their academic units. The completed form must include a justification, a listing of requirements that have not been fulfilled, and a proposed schedule of completion. The instructor reviews the request, proposes modifications if necessary, and submits a copy of the request to the appropriate school office. An incomplete in any course that is a prerequisite for sequential courses automatically denies enrollment in subsequent courses. For more information, see "Incomplete," page 81.

**Withdrawals.** University withdrawal regulations apply to all courses. In addition, because the college's upper-division curricula are modular and sequential and because space in the programs is limited, a student is expected to progress through the curriculum with his or her class. Withdrawal from a required upper-division course automatically places a student on probation. Withdrawal from a required upper-division course in a required sequence automatically removes the student from the program beginning the subsequent semester. For more information, see "Grading System," page 81.

**Pass/Fail or Credit/No Credit.** The only courses accepted toward graduation with a grade of pass/fail or credit/no credit are internships and field studies.

**Foreign Study.** The College of Architecture and Environmental Design maintains active communications with several foreign institutions offering professional course work similar to the programs of the college. This opportunity is available for students who wish to pursue professional studies at a foreign institution in lieu of resident course work for up to one academic year. Any interested student is encouraged to inform the head of his or her academic unit at the earliest possible date of any intentions for foreign study. The student must petition the academic unit regarding course equivalency for any exchange programs.

Exchange programs currently exist with Stuttgart University, Germany; Wageningen University, the Netherlands; the University of Valladolid, Spain; the University of British Columbia, Canada; and the Autonomous University of Guadalajara, Mexico. Foreign study programs in France, Italy, and Spain and summer off-campus courses are offered by the School of Architecture. The School of Planning and Landscape Architecture offers a summer landscape planning course in Europe.

Students are also encouraged to consider foreign travel for either a semester or an entire academic year. A leave of absence must be requested for foreign study and foreign travel. Each academic unit reserves the right to evaluate the content and the student's competency in each of the courses completed at foreign institutions.

**Internship.** Upper-division students majoring in Architectural Studies, Graphic Design, Industrial Design, or Interior Design are required to complete an internship program as part of their curriculum between the third and fourth years of study. Internships are optional for Landscape Architecture, Housing and Urban Development, and Urban Planning majors.

**Attendance.** Attendance is expected at all classes, laboratories, and seminars and is a criterion for evaluating performance. Absences and missing work due to absences may result in failure of a course or academic probation. A student may not be excused from attending a class except for medical reasons or other serious personal conditions beyond his or her control. Requests for special consideration must be submitted in writing to the instructor. If accepted, a student may be allowed to take a late or special examination or to submit missing work. Tardiness in contacting the instructor is cause for denying acceptance. For university policy regarding religious holidays, see "Equal Opportunity and Affirmative Action," page 23.

**Employment.** It is difficult for students in professional programs to carry part-time employment while in school. Acceptance to any of the college's upper-division programs presumes a commitment of a minimum of eight hours a day

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L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.



## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

for professional studies. Prior work experience is not a requirement for admission to upper-division programs.

**Retention of Student Work.** The college reserves the right to retain any or all projects or work submitted to meet course requirements for the college's future use in instruction, publication, and exhibition.

**Student Leave of Absence.** Upper-division students who withdraw from classes or do not continue sequentially in enrollment must request both a leave of absence and readmission in writing from the head of the appropriate academic unit. Leaves of absence are for one-year increments and may be approved for personal reasons, travel, work, or additional study in other disciplines. Students on leave must make the written request for readmission before April 15 for the fall semester of the year of return or before November 1 for the spring semester so that a space may be reserved. Failure to request a leave of absence may result in removal from the program and deferrals are not allowed.

### STUDENT RESPONSIBILITY

The purpose of this code is to promulgate standards of conduct for students of the College of Architecture and Environmental Design and to establish procedures for reviewing violations. Students are expected to support and maintain the highest professional standards with regard to their individual conduct and their personal and common environments in the college. Copies of the *Code of Student Responsibilities* are available from the Office of the Dean or from a college academic advisor.

### SPECIAL PROGRAMS

The college and its academic units regularly sponsor lecture series, symposia, and exhibits. In addition, faculty and students attend regional and national meetings of educators and professionals. Academic units sponsor student awards programs and regularly invite professionals and critics to reviews of student projects. The college also participates with the Barrett Honors College, offering a wide range of courses for honors credit.

### GENERAL INFORMATION

**Accreditation.** Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board (NAAB): (1) the Bachelor of Architecture (not offered by ASU), which requires a minimum of five years of study, and (2) the Master of Architecture, which requires a minimum of two years of study following a related preprofessional bachelor's degree or three years following an unrelated bachelor's degree. These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year preprofessional degree, where offered, is not accredited by NAAB. The preprofessional degree is useful for those desiring a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas. For more information, see "Accreditation and Affiliation," page 712.

**Dean's List.** Undergraduate students who earn 12 or more graded semester hours ("A" [4.00], "B" [3.00], "C" [2.00], "D" [1.00], or "E" [0.00]) during a semester in residence at ASU with a GPA of 3.50 or higher are eligible for the Dean's List. A notation of achieving the distinction of being listed on the Dean's List appears on the final grade report for that semester.

### College of Architecture and Environmental Design

**Alumni Association.** The College of Architecture and Environmental Design Alumni Association encourages graduates to contribute to the college by acting as liaisons among the college community, students, and practicing professionals. The college also calls on the members of the Architecture Guild of Arizona State, the Arizona Design Institute, the Council for Design Excellence, and the Planning Advisory Committee for advice and to promote the goals of the college.

**Council for Design Excellence.** The Council for Design Excellence has been created to consolidate a partnership between the College of Architecture and Environmental Design and key community leaders who share a vital interest in the development of high quality in the built environment of the Phoenix metropolitan area. By joining together professionals, business and civic leaders, students, and faculty in a common pursuit of design excellence, the council seeks to make a profound difference in the quality of life.

**Affiliations.** For information on affiliations maintained by the college, see "Accreditation and Affiliation," page 712.

**Student Professional Associations.** The purpose of the student associations is to assist students with the transition into professional life and to acquaint them with the profession relating to their program of study. These include the following associations:

- American Institute of Architecture Students
- Sigma Phi Zeta
- Student Association of the College of Architecture and Environmental Design
- Student Association of Interior Designers (ASID, IALD, IFDA, IFMA, IIDA)
- Student Chapter/American Planning Association
- Student Chapter/American Society of Landscape Architects
- Student Chapter/Industrial Designers Society of America
- Student Chapter/Society of Environmental Graphic Designers

### ENVIRONMENTAL DESIGN AND PLANNING (EPD)

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

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## School of Architecture and Landscape Architecture

[www.asu.edu/caed/sala](http://www.asu.edu/caed/sala)

480/965-3536

AED 162

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**Professors:** Brooks, Bryan, Hoffman, McCoy, Meunier, Ozel, Reiter, Rotondi, Underhill, Underwood

**Associate Professors:** Cook, Ellin, Fish Ewan, Hartman, Loope, Petrucci, Spellman, Van Duzer, Zygas

**Assistant Professors:** Burnette, Ewan, Hejduk, Innes, Kobayashi, Lerum, Vekstein

**Clinical Associate Professor:** Murff

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### PURPOSE

The architecture and landscape architecture programs at ASU offer an integrated curriculum of professional courses and focus on the design laboratory. The programs reflect an awareness of the complex factors affecting the quality of the built environment. The programs seek through scholarship, teaching, research, design, and community service to develop the discipline and the knowledge necessary to address the important environmental and design issues faced by society.

In addition to developing knowledge and skills in architectural design, building technology, landscape architecture, and professional practice, students are encouraged to select electives from a broad range of approved courses both within the college and across the university. These electives may be selected to devise a minor, to further professional study, or in some other fashion to enrich the student's academic experience.

### ORGANIZATION

The School of Architecture and Landscape Architecture programs are organized by the faculty under the direction and administration of the director and standing committees of the faculty.

### DEGREES

The faculty in the School of Architecture and Landscape Architecture offer the Bachelor of Science in Design (BSD) degree with a major in Architectural Studies and a Bachelor of Science in Landscape Architecture (BSLA) degree.

The program in architecture culminates with the professional degree Master of Architecture (MArch), which is accredited by the National Architectural Accrediting Board (NAAB). Completion of the program is intended to take six years.

In the United States, most state registration boards require a degree from an accredited professional degree pro-

gram as a prerequisite for licensure. The NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformity with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree, which, when earned sequentially, compose an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

Admission to the professional program in architecture is competitive and begins after completion of lower-division requirements, as described in "Admission," on this page and "Degree Requirements," page 141. The professional program includes two years of upper-division study leading to the BSD and two years of graduate study leading to the MArch, as described in "Upper-Division Professional Program," page 140.

Applicants who already hold a bachelor's degree in another field should apply to the 3+ year MArch degree program. See the *Graduate Catalog* for more information.

The BSLA degree prepares students to be professional landscape architects. Students explore the reasons for and the techniques involved in the analysis, planning, and design of the environment, both natural and built. The BSLA is an accredited program.

In cooperation with the Barrett Honors College, the school offers a special honors curriculum for students with Barrett Honors College standing. Consult the advising officers in the school for information.

### ADMISSION

**Lower-Division Program.** New and transfer students who have been admitted to the university and who have selected Architectural Studies or Landscape Architecture Studies as their major are admitted to the lower-division architecture program without separate application to the School of Architecture and Landscape Architecture. Completion of lower-division requirements does not ensure acceptance to the upper-division professional program.

Transfer credits for the lower-division program are reviewed by the college faculty. To be admissible to this curriculum, transfer courses must be equivalent in both content and level of offering. A review of samples of work is required for studio classes. Consult a college academic advisor for additional information.

Entering lower-division students who are not prepared to enroll in some of the required courses are required to complete additional university course work. These additional prerequisite courses do not apply to the Bachelor of Science in Design or the Bachelor of Science in Landscape Architecture degree requirements.

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**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

**Upper-Division Professional Program.** Admission to the upper-division professional program is competitive and limited by available resources. Admission is awarded to those applicants demonstrating the highest promise for professional success.

Transfer students who have completed the equivalent required lower-division course work may apply to the upper-division program. Prior attendance at ASU is not required for application to the upper-division program.

To be eligible for admission to the upper-division program, the following requirements must be met:

1. admission to ASU (note that application and admission to the upper-division program are separate from application and admission to ASU);
2. completion of lower-division requirements or equivalents as approved by a college academic advisor and the faculty of the school;
3. a minimum university cumulative GPA of 3.00 as well as a 3.00 GPA based only on the required lower-division courses or equivalents; and
4. submission of a portfolio (for detailed information about this requirement, see "Portfolio Format Requirements," on this page).

In an unusual circumstance, when the admission standard deficiency is slight, written evidence of extenuating circumstances is convincing, and promise for success is evident, a student may be granted admission to the upper division on a *provisional* basis.

Students not admitted to the upper-division program are not dismissed from the school and may reapply or may transfer to other programs. Students who intend to reapply should meet with a college academic advisor.

Applications for transfer into the upper-division professional program are considered only if transfer students have met the eligibility requirements above. Transfer applicants must demonstrate that equivalent course work has been completed, and applicants must be academically competitive with continuing students.

Students who successfully complete the upper-division requirements receive the Bachelor of Science in Design degree in Architectural Studies. This is not a professional degree. To complete the professional architecture program, students must attain the NAAB-accredited Master of Architecture degree. Students who receive the BSD are eligible to apply for the graduate program and should see the *Graduate Catalog* for proper application procedures. This application process is competitive and based on a thorough review of a student's undergraduate preparation and performance.

Students with the four-year Bachelor of Science in Design degree (with a major in Architectural Studies or an equivalent degree from another school that offers an accredited professional degree in architecture) should apply directly to the graduate program.

### APPLICATION TO UPPER-DIVISION PROGRAMS

**Upper-Division Application Procedures.** Students should access the Web site at [www.asu.edu/caed/sala](http://www.asu.edu/caed/sala) for the application form well in advance of the application deadline. The

following dates and procedures are for students applying to 2006–2007 upper-division programs.

**Upper-Division Application Deadlines.** *May 3, 2006 (last day of classes).* Portfolio and application documents are due in the school office by 5 P.M. Applications received after the deadline are not accepted.

*June 2, 2006.* If the spring 2006 semester includes transfer course work (i.e., course work taken at an institution other than ASU), a student must submit his or her transcripts to the school no later than June 2. These transcripts may be unofficial copies. A second set of official transcripts must be sent to the university Undergraduate Admissions office. The application is not complete until the university receives official transcripts for transfer course work. For those transfer students whose academic term ends in June rather than May, this deadline may be extended upon the written request of the applicant.

*July 3, 2006.* Acceptance notices are mailed no later than July 3.

**Return of Letter of Acceptance.** A signed receipt of acceptance of admission must be received by the school by the date indicated on the Notice of Acceptance. Alternates may be accepted at a later date if space becomes available.

**Matriculation.** An accepted student is expected to begin his or her upper-division professional program at the beginning of the immediate fall term. There is no spring admission to the upper-division program and deferrals are not allowed.

**Portfolio Format Requirements.** Application materials must be submitted at one time in a presentation binder (portfolio).

Students should present work sufficient to demonstrate the depth and breadth of their creative activity. This work should include (but is not limited to) examples of two- and three-dimensional design and graphics. Each project should be clearly identified (course, length of project, etc.), with a concise accompanying description of the assignment. Students should consult the School of Architecture Web site at [www.asu.edu/caed/sala](http://www.asu.edu/caed/sala) for specific application information.

Students are encouraged to include additional materials, written or pictorial, that provide additional evidence of skills, abilities, aptitude, and commitment to the major. When any work submitted is not completely original, the source must be given. When work is of a team nature, the applicant's role should be clearly indicated. Original examples or slides must not be submitted. All examples must be photographs or other reproduction graphic media.

**Return of Portfolios.** The application and essay remain the property of the College of Architecture and Environmental Design. However, the remaining portfolio is returned after the admissions review, provided the applicant encloses a self-addressed return mailer with sufficient prepaid postage. Portfolios may be claimed in person after July 1, 2006. If the applicant provides written permission, another person may claim the portfolio. After one year, unclaimed portfolios are discarded. While care is taken in handling the portfolios, no liability for lost or damaged materials is assumed by the college or school.

# SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

## ADVISING

Advising for the lower-division curriculum is through the college Academic Advising Office. Advising for upper-division curriculum is provided by the school's academic advisor.

## DEGREE REQUIREMENTS

The Bachelor of Science in Design degree in Architectural Studies requires a minimum of 120 semester hours of course work. Most lower-division students pursue option A; however, those who intend eventually to seek an advanced degree in either engineering or building science are encouraged to fulfill the requirements outlined in option B. See an advisor in the Academic Advising/Student Services Office (ARCH 115) for information about option B.

Option B students who intend to pursue graduate degrees in an engineering discipline should also consult with the Ira A. Fulton School of Engineering advising office for any additional requirements.

## GENERAL STUDIES REQUIREMENT

The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses. Note that all three General Studies awareness areas are required. Consult an advisor for an approved list of courses.

## GRADUATION REQUIREMENTS

In addition to fulfilling college and major requirements, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

The accredited professional degree Master of Architecture requires an additional 56 hours of approved graduate-level course work. For more information, see the *Graduate Catalog*.

### Architectural Studies—BSD<sup>1</sup> Lower-Division Requirements

#### First Year

##### Fall

APH 100 Introduction to Environmental Design <i>HU, G, H</i> .....	3
or ADE 120 Design Fundamentals I <sup>2</sup> (3) .....	
ENG 101 First-Year Composition .....	3
MAT 210 Brief Calculus <i>MA</i> .....	3
SB elective .....	3
Elective .....	3
<b>Total</b> .....	<b>15</b>

##### Spring

ADE 120 Design Fundamentals I <sup>2</sup> .....	3
or APH 100 Introduction to Environmental Design <i>HU, G, H</i> (3) .....	
ENG 102 First-Year Composition .....	3
Elective .....	3
C elective .....	3
SB elective .....	3
<b>Total</b> .....	<b>15</b>

#### Second Year

##### Fall

ADE 221 Design Fundamentals II <sup>2</sup> .....	3
ADE 223 Design Fundamentals II Lecture .....	1
ANP 236 Introduction to Computer Modeling <i>CS</i> .....	3
APH 200 Introduction to Architecture <i>HU, G</i> .....	3
PHY 101 Introduction to Physics <i>SG</i> .....	4
<b>Total</b> .....	<b>14</b>

##### Spring

ADE 222 Design Fundamentals III <sup>2</sup> .....	3
ADE 224 Design Fundamentals III Lecture .....	1
ATE 353 Architectural Construction .....	3
L elective .....	3
SG or SQ elective .....	4
<b>Total</b> .....	<b>14</b>
Option A lower-division total .....	<b>58</b>

- <sup>1</sup> Transfer credits are reviewed by the college and evaluated for applicability to this curriculum. To be applicable, transfer courses must be equivalent in both content and level of offering.
- <sup>2</sup> Portfolio review is required for transfer studio work. Submit the portfolio to the Academic Advising Office, ARCH 115.

### Architectural Studies—BSD Upper-Division Requirements

#### Third Year

##### Fall

ADE 321 Architectural Studio I .....	5
APH 313 History of Architecture I <i>L/HU, G, H*</i> .....	3
ATE 361 Building Structures I .....	3
Elective* .....	3
<b>Total</b> .....	<b>14</b>

##### Spring

ADE 322 Architectural Studio II .....	5
APH 314 History of Architecture II <i>L/HU, G, H*</i> .....	3
ATE 462 Building Structures II .....	3
Elective* .....	3
<b>Total</b> .....	<b>14</b>

##### Summer

ARP 484 Clinical Internship .....	3
<b>Total</b> .....	<b>3</b>

#### Fourth Year

##### Fall

ADE 421 Architectural Studio III .....	5
ANP 331 Programming for Design .....	3
ATE 451 Building Systems I .....	3
Elective* .....	3
CAED Professional elective* .....	3
<b>Total</b> .....	<b>17</b>

##### Spring

ADE 422 Architectural Studio IV .....	5
ATE 452 Building Systems II .....	3
CAED history elective* .....	3

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

Elective*	3
Total	14
Option A upper-division total	62
BSD option A minimum total	120

\* These courses may be completed before admission into the upper division.

### Landscape Architecture—BSLA Lower-Division Requirements

#### First Year

<b>Fall</b>	
ADE 120 Design Fundamentals I <sup>1, 2</sup>	3
or APH 100 Introduction to Environmental Design <i>HU, G, H</i> <sup>3</sup> (3)	
ENG 101 First-Year Composition	3
or ENG 105 First-Year Composition if qualified (3)	
MAT 210 Brief Calculus <i>MA</i> <sup>3</sup>	3
Social/Behavioral Science Elective <i>SB</i> <sup>3</sup>	3
Elective	3
Total	15

<b>Spring</b>	
APH 100 Introduction to Environmental Design <i>HU, G, H</i> <sup>3</sup>	3
or ADE 120 Design Fundamentals I <sup>1, 2</sup> (3)	
ENG 102 First-Year Composition	3
Elective	3
Social/Behavioral Science Elective <i>SB</i> <sup>3</sup>	3
Cultural Diversity Elective <i>C</i> <sup>3</sup>	3
Total	15

#### Second Year

<b>Fall</b>	
ADE 221 Design Fundamentals II <sup>1, 2</sup>	3
ADE 223 Design Fundamentals II Lecture	1
ANP 236 Introduction to Computer Modeling <i>CS</i> <sup>1, 2, 3</sup>	3
APH 200 Introduction to Architecture <i>HU, G</i> <sup>1, 3</sup>	3
PHY 101 Introduction to Physics <i>SQ</i> <sup>3</sup>	4
Total	14

<b>Spring</b>	
ADE 222 Design Fundamentals III <sup>1, 2</sup>	3
ADE 224 Design Fundamentals III Lecture	1
ATE 353 Architectural Construction	3
Literacy and Critical Inquiry Elective <i>L</i> <sup>3</sup>	3
Natural Science Elective with Laboratory <i>SQ</i> or <i>SG</i> <sup>3</sup>	4
Total	14
Option A lower-division total	58

<sup>1</sup> Transfer credits are reviewed by the college and evaluated for applicability to this curriculum. To be applicable, transfer courses must be equivalent in both content and level of offering.

<sup>2</sup> Portfolio review is required for transfer studio work. Submit portfolio to the Academic Advising Office, ARCH 115.

<sup>3</sup> This course satisfies a general studies requirement. See the course description for specific requirement(s) the course fulfills.

### Landscape Architecture—BSLA Upper-Division Requirements

#### Third Year

<b>Fall</b>	
PLA 361 Landscape Architecture III	4
PLA 310 History of Architecture <i>H</i> <sup>1</sup>	3

PLA 242 Landscape Construction I	4
Elective	3
Upper-division elective <i>HU</i> or <i>SB</i>	3
Total	17

#### Spring

PLA 311 Contemporary Landscape Architecture	3
PLA 344 Landscape Construction II	3
PLA 362 Landscape Architecture IV	4
PLA 363 Landscape Planting Design	4
Total	14

#### Summer

ARP 484 Clinical Internship	2
Total	2

#### Fourth Year

##### Fall

PLA 411 Landscape Architecture Theory and Criticism <i>L</i>	3
PLA 461 Landscape Architecture V	4
PLA 494 ST: Plant Materials	3
PUP 432 Planning and Development Control Law	3
Elective	3
Total	16

##### Spring

PLA 446 Landscape Construction III	3
PLA 462 Landscape Architecture VI	4
CAED Professional elective <sup>3</sup>	3
CAED history elective <sup>3</sup>	3
Total	13

Upper Division total	62
BSLA program total	120

<sup>1</sup> This course satisfies a general studies requirement. See the course description for specific requirement(s) the course fulfills.

<sup>2</sup> Portfolio review is required for transfer studio work. Submit portfolio to the Academic Advising Office, ARCH 115.

<sup>3</sup> Professional elective is a 300 or higher level course, taken within CAED (Architecture, Design, and/or Planning). The history elective is a 300 or higher level course also taken within CAED and must have historical/theoretical content.

### Master of Architecture Graduate-Level Professional Program Requirements

#### Fifth Year

<b>Fall</b>	
ADE 521 Advanced Architectural Studio I	5
APH 505 Foundation Theory Seminar	3
ATE 553 Building Systems III	3
ATE 563 Building Structures III	3
Total	14

##### Spring

ADE 522 Advanced Architectural Studio II	5
APH 515 Current Issues and Topics	3
ATE 556 Building Development	3
CAED Professional elective	3
Total	14

#### Sixth Year

##### Fall

AAD 551 Architectural Management I	3
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## SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

ADE 621 Advanced Architectural Studio III.....	5
CAED Professional elective.....	3
CAED Professional elective.....	3
Total .....	14

### Spring

AAD 552 Architectural Management II.....	3
ADE 622 Advanced Architectural Studio IV.....	5
Approved elective .....	3
CAED Professional elective.....	3
Total .....	14
Graduate division total .....	56

### ARCHITECTURAL STUDIES MINOR

The Architectural Studies minor is available to non-architecture majors interested in this field. A minimum of 18 semester hours are required for the minor. The courses are designed to provide an overview of architecture throughout history while focusing on architectural design with the intention to explore the process of design thinking.

#### Required Courses

APH 200 Introduction to Architecture <i>HU, G</i> .....	3
APH 300 World Architecture I/Western Cultures <i>HU, G</i> .....	3
APH 313 History of Architecture I <i>L/HU, G, H</i> .....	3
APH 314 History of Architecture II <i>L/HU, G, H</i> .....	3
Total .....	12

Six additional semester hours of electives in the architectural history and theory concentration, with a course prefix of APH or approved PUP/PLA prefix, must be selected from the following list for a total of 18 semester hours:

ANP 331 Programming for Design* .....	3
APH 304 American Architecture <i>HU</i> .....	3
APH 394 Special Topics .....	3
APH 411 History of Landscape Architecture <i>H</i> .....	3
APH 414 History of the City <i>H</i> .....	3
APH 446 20th-Century Architecture I <i>HU</i> .....	3
APH 447 20th-Century Architecture II <i>HU</i> .....	3
APH 494 Special Topics .....	3
APH 499 Individualized Instruction* .....	3
APH 511 Energy Environment Theory .....	3
APH 598 Special Topics .....	1-4

\* These courses require a petition to the School of Architecture and Landscape Architecture.

A minimum GPA of 3.00 is required to pursue the minor in Architectural Studies.

### LANDSCAPE STUDIES MINOR

The minor in Landscape Studies is designed for students who have an interest in landscape aesthetics, but are pursuing a major in another field. The course selection is intended to provide greater understanding of landscape issues that may be relevant in related professional disciplines and to broaden knowledge about the landscape in which we live.

Students must complete a minimum of 18 semester hours from the following list of courses. Students may petition to have other PLA special topics courses considered as part of the 18 semester hours required.

PLA 101 Landscape and Society.....	3
PLA 310 History of Landscape Architecture <i>H</i> .....	3

PLA 311 Contemporary Landscape Architecture .....	3
PLA 411 Landscape Architecture Theory and Criticism <i>L</i> .....	3
PLA 412 Landscape Ecology and Planning .....	3
PLA 413 Southwest Landscape Interpretation .....	3
PLA 485 International Field Studies in Planning <i>G</i> .....	6

The minor is open to students of all majors. Students must, however, have an overall GPA of 2.50 or higher and achieve a minimum 2.50 GPA in minor classes to be awarded the minor. Students seeking admission to the minor in Landscape Studies must submit a minor verification form to the landscape architecture coordinator in the School of Architecture and Landscape Architecture.

### BIS CONCENTRATION

A concentration in architectural studies is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 124.

### INQUIRIES

For more information, contact a college academic advisor at 480/965-3584, e-mail [caed.advising@asu.edu](mailto:caed.advising@asu.edu), or write

ACADEMIC ADVISING/STUDENT SERVICES  
OFFICE  
COLLEGE OF ARCHITECTURE AND  
ENVIRONMENTAL DESIGN  
ARIZONA STATE UNIVERSITY  
PO BOX 871905  
TEMPE AZ 85287-1905

### COURSES

Subject matter within the school is categorized in the following instructional areas.

**Architectural Administration and Management.** AAD courses focus on the organizational and management aspects of architectural practice, including management coordination, administrative procedures, ethics, legal constraints, and the economics of practice.

**Architectural Design and Technology Studios.** ADE courses require the synthesis of knowledge and understanding gained from other course work and develop an understanding of design theory and design skill through a series of comprehensive design projects. Students apply analytical methods, compare alternative solutions, and develop sophisticated technical and conceptual results.

**Environmental Analysis and Programming.** ANP courses develop the ability to analyze and program environmental and human factors as preconditions for architectural design

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

using existing and emerging methods of evaluation and analysis.

**Architectural Philosophy and History.** APH courses develop an understanding of architecture as both a determinant and a consequence of culture, technology, needs, and behavior in the past and present. Studies are concerned with the theory as well as the rationale behind methods and results of design and construction. Case studies are both domestic and international.

**Architecture Professional Studies.** ARP courses provide students with off-campus opportunities, educational experience in group and individual studies relative to specific student interests, and faculty expertise, including summer internships and field trips.

**Architectural Technology.** ATE courses develop knowledge of the technical determinants, resources, and processes of architecture. These studies focus on the science and technology of design and construction, including materials, building systems, acoustics, lighting, structural systems, environmental control systems, computer applications to design and technology, and both passive and active solar systems. Emphasis is on measurable and quantifiable aspects.

**Architectural Communication.** AVC courses develop the student's understanding of communication theory as it applies to architectural design and practice as well as skills in drawing, graphics, photography, presentation design, and the design process.

The courses required in the upper-division and graduate levels of the professional program are not open to nonmajors and students not admitted to the upper-division program.

### GRADUATE PROGRAMS

The faculty of the School of Architecture offer a Master of Architecture and a MS degree in Building Design. Concurrent application to both degree programs is possible, and each application is evaluated by the respective admission committees separately. Also, a dual career program, Master of Architecture/Master of Business Administration, has been established in cooperation with the W. P. Carey School of Business. Also offered is a collegewide, interdisciplinary PhD degree in Environmental Design and Planning with concentrations in design; history, theory, and criticism; and planning. For more information, see the *Graduate Catalog*.

### ARCHITECTURAL ADMINISTRATION AND MANAGEMENT (AAD)

**AAD 494 Special Topics. (1–4)**  
*selected semesters*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

### ARCHITECTURAL DESIGN AND TECHNOLOGY STUDIOS (ADE)

**ADE 120 Design Fundamentals I. (3)**

*fall, spring, summer*

Development of visual literacy. Introduces drawing and graphic representation as methods of seeing and problem solving. Studio. Prerequisite: major in College of Architecture and Environmental Design.

**ADE 221 Design Fundamentals II. (3)**

*fall*

Exercises in basic design, stressing creative problem-solving methods, principles of composition, and aesthetic evaluation. Development of vocabulary for environmental design. Lecture, studio. Prerequisite with a grade of "C" (2.00) or higher: ADE 120. Corequisite: ADE 223.

**ADE 222 Design Fundamentals III. (3)**

*spring*

Applies design fundamentals with an emphasis on architectural issues. Lecture, studio. Prerequisite: APH 200. Prerequisite with a grade of "C" (2.00) or higher: ADE 221. Corequisite: ADE 224.

**ADE 223 Design Fundamentals II Lecture. (1)**

*fall*

Theory and applications of basic design principles, history and theory of how architecture design is impacted by basic design. Lecture, discussion. Corequisite: ADE 221.

**ADE 224 Design Fundamentals III Lecture. (1)**

*spring*

History and theory of design fundamentals with an emphasis on architectural issues. Lecture, discussion. Corequisite: ADE 222.

**ADE 321 Architectural Studio I. (5)**

*fall*

Introductory building design problems. Emphasizes design process, communication methods, aesthetics, construction, and technology. Lecture, studio, field trips. Fee. Prerequisite: admission to upper division. Corequisite: ATE 353.

**ADE 322 Architectural Studio II. (5)**

*spring*

Site and building design problems. Emphasizes programmatic and environmental determinants and building in natural and urban contexts. Lecture, studio, field trips. Fee. Prerequisite with a grade of "C" (2.00) or higher: ADE 321. Corequisite: ANP 331.

**ADE 421 Architectural Studio III. (5)**

*fall*

Topical design problems of intermediate complexity, including interdisciplinary problems. Lecture, studio, field trips. Fee. Prerequisite with a grade of "C" (2.00) or higher: ADE 322. Corequisite: ARP 484.

**ADE 422 Architectural Studio IV. (5)**

*spring*

Topical design problems of advanced complexity, including interdisciplinary problems. Lecture, studio, field trips. Fee. Prerequisite with a grade of "C" (2.00) or higher: ADE 421.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

### ENVIRONMENTAL ANALYSIS AND PROGRAMMING (ANP)

**ANP 236 Introduction to Computer Modeling. (3)**

*fall*

Fundamentals of computer operation, geographic information systems, geometric modeling of 3-D forms and rendering of light, mathematical modeling of processes using spreadsheets. Lab. Prerequisite: major in the School of Architecture.

*General Studies: CS*

**ANP 331 Programming for Design. (3)**

*spring*

Theory and methods for refracting "constraints" into opportunities for design excellence. Corequisite: ADE 322.



## SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

### **ANP 475 Computer Programming in Architecture. (3)**

*fall and spring*

Computer programming for architectural problems and applications. Lecture, lab.

### **ANP 494 Special Topics. (1–4)**

*fall, spring, summer*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## **ARCHITECTURAL PHILOSOPHY AND HISTORY (APH)**

### **APH 100 Introduction to Environmental Design. (3)**

*fall and spring*

Survey of environmental design: includes historic examples and the theoretical, social, technical, and environmental forces that shape them. Cross-listed as PUP 100. Credit is allowed for only APH 100 or PUP 100.

*General Studies: HU, G, H*

### **APH 200 Introduction to Architecture. (3)**

*fall and summer*

Survey of issues and polemics affecting current architectural theory and practice. Lecture, discussion.

*General Studies: HU, G*

### **APH 300 World Architecture I/Western Cultures. (3)**

*fall*

Historical and contemporary built environments of Western civilizations: Mediterranean, Europe, and the Americas as manifestations of cultural history and responses to environmental determinants. Prerequisite: nonmajor.

*General Studies: HU, G*

### **APH 304 American Architecture. (3)**

*selected semesters*

Architecture in the United States from earliest colonial times to present.

*General Studies: HU*

### **APH 305 Contemporary Architecture. (3)**

*selected semesters*

Europe and America from the foundations of the modern movement to the present. Prerequisite: nonmajor.

*General Studies: HU, H*

### **APH 313 History of Architecture I. (3)**

*fall*

Survey of the monuments, buildings, and cities of Europe and Africa from the earliest human settlements to the present day. Prerequisite: junior standing or instructor approval.

*General Studies: L/HU, G, H*

### **APH 314 History of Architecture II. (3)**

*spring*

Survey of the monuments, buildings, and cities of Asia and the Americas from the earliest human settlements to the present day. Prerequisite: APH 313.

*General Studies: L/HU, G, H*

### **APH 394 Special Topics. (1–4)**

*selected semesters*

### **APH 411 History of Landscape Architecture. (3)**

*fall*

Physical record of human attitudes toward the land. Ancient through contemporary landscape planning and design. Cross-listed as PLA 310. Credit is allowed for only APH 411 or PLA 310.

*General Studies: H*

### **APH 414 History of the City. (3)**

*fall*

The city from its ancient origins to the present day. Emphasizes European and American cities during the last five centuries. Cross-listed as PUP 412. Credit is allowed for only APH 414 or PUP 412. Prerequisite: College of Architecture and Environmental Design junior standing.

*General Studies: H*

### **APH 441 Ancient Architecture. (3)**

*selected semesters*

Architecture of the ancient Mediterranean world with selective emphasis on major historical complexes and monumental sites.

Prerequisite: APH 313.

*General Studies: HU*

### **APH 444 Baroque Architecture. (3)**

*selected semesters*

Selected examples of Baroque architecture and urbanism with emphasis on relationships between architecture and other arts.

Prerequisite: APH 314.

*General Studies: HU*

### **APH 446 20th-Century Architecture I. (3)**

*fall*

Architecture in Europe and America from the foundations of the modern movement to the culmination of the international style.

Prerequisite: instructor approval.

*General Studies: HU*

### **APH 447 20th-Century Architecture II. (3)**

*spring*

Developments in architecture since the international style.

Prerequisite: APH 446.

*General Studies: HU*

### **APH 494 Special Topics. (1–4)**

*once a year*

### **APH 499 Individualized Instruction. (1–3)**

*selected semesters*

### **APH 505 Foundation Theory Seminar. (3)**

*fall*

Foundation of conceptual architectural inquiry, stressing the reciprocal and interdependent relationship between design and theory. Lecture, seminar. Corequisite: ADE 521.

### **APH 509 Foundation Seminar. (3)**

*summer*

Historical, technical, theoretical, environmental, and professional issues in architecture. Lecture, seminar, field trips. Corequisite: ADE 510.

### **APH 511 Energy Environment Theory. (3)**

*fall*

Solar and other energy sources in designed and natural environments; architectural, urban, and regional implications of strategies using other renewable resources.

### **APH 515 Current Issues and Topics. (3)**

*spring*

Critical examination of current architectural issues, topics, and discourse. Prerequisite with a grade of "C" (2.00) or higher: APH 505. Corequisites: ADE 522; ATE 556.

### **APH 581 Contemporary Urban Design. (3)**

*spring*

Explores contemporary city and urban design issues related to contemporary cities. Seminar, lecture, discussion.

### **APH 598 Special Topics. (1–4)**

*fall or spring*

### **APH 683 Critical Regionalism. (3)**

*spring*

Critical inquiry in cultural grounding; the definition of place in architectural theory and practice. Lecture, field studies.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

## **ARCHITECTURE PROFESSIONAL STUDIES (ARP)**

### **ARP 451 Architecture Field Studies. (1–6)**

*selected semesters*

Organized field study of architecture in specified national and international locations. Credit/no credit. May be repeated with approval of director.

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L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

### ARP 484 Clinical Internship. (1–3)

*fall*

Full-time internship under the supervision of practitioners in the Phoenix area or other locales. Credit/no credit. Corequisite: ADE 421.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## ARCHITECTURAL TECHNOLOGY (ATE)

### ATE 353 Architectural Construction. (3)

*fall*

Materials and methods of construction. Aesthetic, code, and cost considerations. Lecture, lab. Corequisite: ADE 321 or 511.

### ATE 361 Building Structures I. (3)

*spring*

Introduces load distribution on structures. Static analysis of determinant beams, trusses, arches, and rigid frames. Computer applications. Lecture, lab. Prerequisite: admission to upper division or Master of Architecture program.

### ATE 451 Building Systems I. (3)

*fall*

Principles of solar radiation, heat and moisture transfer, and environmental control systems as form influences. Energy-conscious design. Lecture, lab. Prerequisite: admission to upper division or Master of Architecture program.

### ATE 452 Building Systems II. (3)

*spring*

Architectural design implications of heating, ventilation, and air conditioning systems. Principles of lighting, daylighting, and acoustics, and their applications. Lecture, lab. Prerequisite: ATE 451.

### ATE 462 Building Structures II. (3)

*fall*

Strength of materials. Stresses in beams and columns. Thermal effects on structures. Analysis, design, and detailing of wood structural systems. Lecture, lab. Prerequisite: ATE 361.

### ATE 494 Special Topics. (1–4)

*selected semesters*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## ARCHITECTURAL COMMUNICATION (AVC)

### AVC 161 Advanced Freehand Perspective Drawing. (2)

*selected semesters*

Introduces color media and analytical and design drawing exercises. 4 hours studio. Prerequisite: major in the College of Architecture and Environmental Design.

### AVC 494 Special Topics. (1–4)

*once a year*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## LANDSCAPE ARCHITECTURE (PLA)

### PLA 101 Landscape and Society. (3)

*fall*

Examines interrelationship between society and the landscape with emphasis on human involvement in shaping the landscape.

*General Studies: G*

### PLA 161 Graphic Communication. (3)

*fall or spring*

Develops drawing skills and understanding of the graphic communication systems used by planning, homebuilding, and landscape architecture professions. Studio. Cross-listed as HUD 161/PUP 161. Credit is allowed for only HUD 161 or PLA 161 or PUP 161.

### PLA 194 Special Topics. (1–4)

*selected semesters*

Topics may include the following:

- Presentation Graphics. (3)

### PLA 222 Computers in Landscape Architecture. (3)

*fall*

Computer applications in landscape architecture, including CAD, GIS, graphics, and visualization. Lab.

### PLA 240 Landscape Survey Techniques. (3)

*spring*

Develops landscape survey skills, including aerial photography, satellite images, geo-referencing, landscape surveys, and field data collection. Lecture, lab.

### PLA 242 Landscape Construction I. (4)

*fall*

Landscape constructions focusing on landform transformations. Topics include landform analysis, grading, and earthwork. Studio. Prerequisite: admission to professional program.

### PLA 261 Landscape Architecture I. (4)

*fall*

Landscape communication: communication techniques for urban planning and landscape architecture. Credit is allowed for only PLA 261 or PUP 261. Studio. Prerequisites: ADE 120; GPH 111.

### PLA 262 Landscape Architecture II. (4)

*spring*

Reading the landscape: observing, experiencing, and graphically expressing the symbolic and aesthetic significance of natural landscapes. Prerequisites: ADE 120; PLA 261; admission to professional program.

### PLA 310 History of Landscape Architecture. (3)

*fall*

Physical record of human attitudes toward the land. Ancient through contemporary landscape planning and design. Cross-listed as APH 411. Credit is allowed for only APH 411 or PLA 310.

*General Studies: H*

### PLA 311 Contemporary Landscape Architecture. (3)

*spring*

Explores concerns, projects, and movements in landscape architecture of late 20th-century understanding; social, ecological, regional, and historical influences.

### PLA 344 Landscape Construction II. (4)

*spring*

Characteristics of materials and methods used in landscape architectural construction. Studio. Prerequisite: PLA 242 or instructor approval.

### PLA 345 Professional Practice Seminar. (1)

*spring*

Landscape architecture practice, including contracts, project and office management, liability, licensing, and professional development.

### PLA 361 Landscape Architecture III. (4)

*fall*

Site planning: analysis of natural and cultural features; site systems and implications for plan making and design. Studio. Fee. Prerequisite: admission to professional program.

### PLA 362 Landscape Architecture IV. (4)

*spring*

Site design: site-specific design of configured space by the creative development of form. Studio. Fee. Prerequisite: admission to professional program.

### PLA 363 Landscape Planting Design. (4)

*spring*

Functional and aesthetic use of plants in arid-region landscape design. Explores design philosophies through planting design problems. Studio. Prerequisite: admission to professional program.

### PLA 410 Social Factors in Landscape and Urban Planning. (3)

*fall*

Examines the influence of social factors in landscape architecture and urban planning.

**PLA 411 Landscape Architecture Theory and Criticism. (3)***spring*

Critically analyzes landscape architecture theories and projects to evaluate validity of design and contribution to society. Prerequisites: PLA 310, 361, 362, 420, 461.

*General Studies: L***PLA 412 Landscape Ecology and Planning. (3)***selected semesters*

Reviews the evolution of landscape ecology and landscape planning and examines use and value.

**PLA 413 Southwest Landscape Interpretation. (3)***selected semesters*

Explores methods and implications of landscape interpretation within the American Southwest.

**PLA 420 Theory of Urban Design. (3)***spring*

Analyzes the visual and cultural aspects of urban design. Theories and techniques applied to selected study models. Prerequisite: junior standing.

*General Studies: HU***PLA 446 Landscape Construction III. (3)***spring*

Landscape construction focusing on low-technology, biotechnical, regional, and experimental techniques or systems. Lecture, studio.

**PLA 461 Landscape Architecture V. (4)***fall*

Landscape ecological planning: collection and application of ecological data relevant to planning and design at landscape scale. Studio. Fee. Prerequisite: PLA 362.

**PLA 462 Landscape Architecture VI. (4)***spring*

Advanced landscape architecture: integrative capstone studio with multifaceted design problems. Fee. Prerequisite: PLA 461.

**PLA 484 Internship. (3)***fall, spring, summer session 1*

Full-time internship under the supervision of practitioners in the Phoenix area or other locales. Credit/no credit. Prerequisite: school major or instructor approval.

**PLA 485 International Field Studies in Planning. (1–12)***summer*

Organized field study of planning in specified international locations. May be repeated for credit with school approval. Study abroad, field trip. Cross-listed as PUP 485. Credit is allowed for only PLA 485 or PUP 485.

*General Studies: G (3 hours must be taken to secure G credit.)***PLA 494 Special Topics. (1–4)***fall and spring*

Topics may include the following:

- Plant Materials. (3)

**PLA 498 Pro-Seminar. (1–7)***spring*

Topics may include the following:

- Professional Senior Seminar. (1)

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

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## School of Design

[www.asu.edu/caed/SOD](http://www.asu.edu/caed/SOD)

480/965-4135

AED 154

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**Jacques Giard, Director**

**Professors:** Brandt, Giard

**Associate Professors:** Bernardi, Cutler, Johnson, McDermott, Patel, Rothstein, Sanft, Witt

**Assistant Professors:** Bender, Boradkar, Brungart, Herring, McCoy, Schoenhoff, Shin, Thibau Catsis

**Clinical Associate Professor:** Weed

**Adjunct Professors:** Heywood, Kendle, Moore

**Faculty Associates:** Clark, Johannes, Jones, Montgomery, Shigo, Sola, Song, White

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## PURPOSE

The School of Design educates individuals for the profession of graphic design, industrial design, and interior design. The curricula are focused on the skills and knowledge that are necessary in these design professions and are undertaken in a learning environment that bridges the academic milieu to the professional world. This direction is further conditioned by the belief that designers have a responsibility to the public and communities they serve. Consequently, students are exposed to a full breadth of learning experiences, from courses in design history, human factors, and the theories of the profession, to the rigors and demands of the design studio. Students learn to integrate aesthetic values into their designs while considering contextual issues. The goal of the school's academic program is to graduate designers who are accomplished and visually sophisticated and who will continue to evolve in their chosen profession. To this end, the school provides an environment that is conducive to design excellence. It has a faculty of active professionals, excellent facilities and resources, and a network that is international in scope.

For more information, access the Web site at [www.asu.edu/caed/SOD](http://www.asu.edu/caed/SOD) or send e-mail to [caed.advising@asu.edu](mailto:caed.advising@asu.edu).

## ORGANIZATION

Programs in the School of Design are organized by the faculty of the school under the direction and administration of the director, and standing committees of the faculty.

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**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

### DEGREES

The faculty in the School of Design offer the Bachelor of Science in Design degree with three majors: Graphic Design, Industrial Design, and Interior Design. Applications are not being accepted to the major in Design Science. The School of Design is an accredited member of the National Association of Schools of Art and Design.

**Graphic Design.** The Graphic Design program places an emphasis on strategic communication developed through a design process that includes research, analysis, conceptualization, planning, and realization. The process leads to innovative visual communication solutions for contemporary design problems that are local to global in scope.

Students integrate design theories and methodologies, cultural and contextual studies, environmental and human factors, traditional and contemporary technologies, and visual aesthetics to develop comprehensive design strategies. These strategies are then employed to give experiential and interactive form to physical artifacts (books, brochures, packaging, etc.), virtual artifacts (Web sites, CD-ROMs, kiosks, interface, etc.), and environments (exhibits, sign systems, etc.) Faculty professes the objective of valuable and appropriate graphic design that informs, educates, directs, and communicates effectively.

Studio projects prepare students not only for the graphic design profession but also for graduate studies. Studio projects allow students to think critically, both as individuals and as members of multidisciplinary teams. Some Graphic Design students collaborate with Industrial Design students and participate in a program that focuses on integrated innovation, an educational initiative that provides an interdisciplinary experience with academic partners in the schools of business and engineering at ASU. Third-year students perform internships either in a corporation or a consulting firm. Fourth-year students complete their undergraduate studies with a public exhibition, a unique tradition that has earned professional admiration for more than a decade.

Based on a very diversified portfolio upon graduation, students opting for the graphic design profession gain employment in brand and corporate identity, interaction and interface design, broadcast (TV graphics), museum/exhibit, publication, and advertising. Students may also pursue graduate studies leading to careers in design education and other fields of professional endeavor in design. The Graphic Design program is actively involved with the American Institute of Graphic Arts, playing a critical role in the development and facilitation of national and regional initiatives.

Students interested in videography, video games, animation/film production, cartoon design, illustration, styling, and photography should consult with the School of Art.

**Industrial Design.** The program of studies in Industrial Design prepares individuals for a professional career in product design and development, especially in the area of manufactured objects used by people on a daily basis. By developing products that are innovative, useful, safe, aesthetically appropriate, and socially and culturally sensitive, the industrial design profession serves the needs of society, consumers, and manufacturers.

The Industrial Design Program at ASU focuses on a new model of interdisciplinary product development called integrated innovation. The primary goal of integrated innovation is to produce design solutions that 1) meet user needs in unexpected ways, 2) create value in the marketplace, and 3) improve society and the environment. This unique focus has led the program to form strong academic partnerships with graphic design and the schools of engineering and business at ASU. Students graduating with this experience can expect to possess an acute understanding of the potential that industrial design brings to the social, commercial, and environmental challenges facing the twenty-first century.

To support integrated innovation, the Industrial Design program at ASU teaches both traditional and cutting-edge design skills and knowledge, including a strong visual acumen; technological aptitude; a practical knowledge of manufacturing, sustainability, and ergonomics; critical comprehension of design history; and a clear understanding of how to identify, evaluate, and respond to the physical and psychological needs of users. By way of studio projects, students learn to research problems and opportunities; visualize and communicate ideas; and to refine their skills in freehand sketching, computer-aided design, and model simulation. Assignments are a balance of conceptual challenges and practical techniques. Typical design projects (some of which are conducted with external partners) feature product planning and user experience along with exercises dealing with the design of electronic devices, housewares, sports equipment, and packaging. Focus is placed on the role of the industrial designer as a member of a team. Third-year students perform internships in either a corporation or a consulting firm. The program also has very close ties with the Industrial Designers Society of America.

**Interior Design.** The four-year Interior Design program focuses on commercial interior design but also offers courses in residential design. Interior design is the study of the interface of people and space as it is influenced by culture, history, and political and economic climates. The professional interior designer applies knowledge of human behavior based on psychological, sociological, physiological, and emotional needs of the occupants of the space. Interior designers often manage or work in teams with architects, engineers, landscape architects, planners, and artisans. The ability to translate the creative design process into a language that is understood by corporate executives and upper management is dependent on the designer's command of visual, verbal, and written communication.

Interior design courses offer opportunities to explore creative expression as well as to develop critical thinking skills. Classes include basic design principles and elements, drawing and drafting, design theory and history, professional development, and environmental systems. Skills and knowledge obtained in these classes are used to solve design problems related to the following environments: large and small residences, hotels, restaurants, corporate offices, retail stores, malls, schools, hospitals, and other types of care facilities. Course work is presented in both lecture and studio formats. Lectures facilitate the thoughtful completion of studio projects. The studio environment provides unique individual and team learning opportunities. National,

regional, and local professional interior designers offer their expertise as lecturers and guest critics. Studio projects involve drawing, sketching, hand and computer drafting, the application of color, materials selection, computer modeling, and the application of technical knowledge. The Interior Design program is in an advantageous program position because of its location within a multidisciplinary college of architecture and design. The close proximity to these other design professions provides a unique opportunity for a comprehensive and holistic educational experience. The Interior Design program is accredited by the Foundation for Interior Design and Education Research. The program provides the educational credentials and knowledge needed for graduates to take required exams for a professional design organization, or for licensure/registration exams required in several states.

## MINORS

### Design Studies

Students interested in design who do not wish to major in graphic, industrial, or interior design can earn a minor in Design Studies. The courses may also appeal to students not accepted to the upper-division of graphic, industrial, or interior design who wish to pursue the study of design within the Bachelor of Interdisciplinary Studies degree.

Courses selected must satisfy the minimum requirement of 18 semester hours for the minor. In addition students must take 12 semester hours in upper-division course work. To enhance understanding of the subject matter, some of the designated courses are sequential in nature and require certain prerequisites. Consequently, students should carefully note the semester in which these particular courses are offered. All designated courses for the minor in design studies are lecture courses.

To pursue the minor in Design Studies, students must have a minimum cumulative GPA of 2.50.

#### Designated Courses for the Minor

##### Design

DSC 101	Design Awareness <i>HU, G</i>	3
DSC 236	Introduction to Computer Modeling <i>CS</i>	3
DSC 344	Human Factors in Design	3
DSC 440	Finding Purpose	3

##### Graphic Design

GRA 111	Graphic Design History I <i>HU</i>	3
GRA 112	Graphic Design History II	3
GRA 225	Communication/Interaction Design Theory	3
GRA 345	Design Rhetoric <i>L</i>	3

##### Industrial Design

IND 236	Introduction to Computer Modeling for Industrial Design	3
IND 242	Materials and Design	3
IND 243	Process and Design	3
IND 316	20th-Century Design I <i>HU, H</i>	3
IND 317	20th-Century Design II <i>HU, H</i>	3
IND 354	Principles of Product Design	3
IND 470	Professional Practice for Industrial Design <i>L</i>	3

##### Interior Design

INT 111	Interior Design Issues and Theories <i>HU</i>	3
INT 121	Introduction to Computer Modeling for Interior Design <i>CS</i>	3

INT 131	Design and Human Behavior <i>SB</i>	3
INT 238	Introduction to Computer-Aided Design of Built Environments	3
INT 310	History of Interior Design I <i>HU, H</i>	3
INT 311	History of Interior Design II <i>HU, H</i>	3
INT 412	History of Decorative Arts in Interiors <i>HU</i>	3
INT 413	History of Textiles in Interior Design	3

### Interior Design History

The minor in Interior Design History is available to students interested in design and culture. The courses designated for the minor are part of the professional studies in interior design within the School of Design. Moreover, the courses serve to inform the students about the importance of the global community, especially sociocultural groups, and the impact of the global community on the design of the interior environment.

The selected courses satisfy the minimum requirement (18 semester hours) for the minor. To enhance the understanding of the subject matter, the selected courses are sequential in nature and require certain prerequisites. Consequently, students should carefully note the semester in which any of these courses is offered.

#### Required Courses

DSC 101	Design Awareness <i>HU, G</i>	3
INT 111	Interior Design Issues and Theories <i>HU</i>	3
INT 310	History of Interior Design I <i>HU, H</i>	3
INT 311	History of Interior Design II <i>HU, H</i>	3
INT 412	History of Decorative Arts in Interiors <i>HU</i>	3
INT 413	History of Textiles in Interior Design	3
Total		18

The minor in Interior Design History is open to students majoring in Architectural Studies, Art, Communication, Psychology, or Sociology, and students in any W. P. Carey School of Business major or the Bachelor of Interdisciplinary Studies program. All other majors are considered on an individual basis and approved by the coordinator of the Interior Design program within the School of Design. To pursue the minor in Interior Design History, students must have a minimum cumulative GPA of 2.50.

## BIS CONCENTRATIONS

Concentrations in design studies and interior design history are available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 124.

## GRADUATE PROGRAMS

The School of Design offers a Master of Science in Design (MSD) degree with concentrations in graphic

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## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

design, industrial design, and interior design. The faculty also participates in a collegewide, interdisciplinary PhD degree in Environmental Design and Planning with concentrations in design; history, theory, and criticism; and planning. For more information, see the *Graduate Catalog*.

### ADMISSION

**Lower-Division Program.** New and transfer students who have been admitted to the university and who have selected Graphic Design, Industrial Design, or Interior Design as a major are admitted to the appropriate lower-division program. Transfer credits for the lower-division program are reviewed by the college and evaluated for applicability to this curriculum. To be applicable, transfer courses must be equivalent in both content and level of offering. A review of samples of work is required for studio classes. Consult a college academic advisor for further information.

Lower-division students entering the program who are not prepared for certain courses in the curriculum (for example, algebra and trigonometry or a second course in computer programming) are required to take additional courses that do not apply to the Bachelor of Science in Design degree. If such courses are required, an additional year of study may be necessary to complete the lower-division program.

Completion of lower-division requirements does not ensure acceptance to an upper-division professional program.

**Upper-Division Program.** When students have completed the lower-division curriculum requirements, they may apply for acceptance to upper-division programs in Graphic Design, Industrial Design, or Interior Design. The limited spaces available each year are awarded to applicants with the highest promise for professional success, as determined by each program. The faculty of the School of Design retain the right to admit any meritorious student who may be deficient in a published school criterion. Such admission requires an extraordinary review of the applicant by the program's admissions committee. Should the faculty choose to admit such an applicant, the student is placed automatically on a provisional admission status with stipulations as to what is required to be removed from probation. See "Application to Upper-Division Programs," on this page.

Students not admitted to upper-division programs are not dismissed from the university and may reapply or transfer to other programs. Students who intend to reapply should meet with a college academic advisor.

### APPLICATION TO UPPER-DIVISION PROGRAMS

**Upper-Division Application Procedures.** Students should write to a college academic advisor for the application form well in advance of the application deadline. For more information on portfolios, students should ask a college academic advisor for a copy of the application and portfolio guidelines. The following dates and procedures are for students applying to 2006–2007 upper-division programs.

**Upper-Division Application Deadlines.** The following dates and procedures apply to all three majors in the School of Design.

*April 14, 2006.* Portfolio and application documents are due in the school office by 5 P.M.

*June 1, 2006.* If the spring 2006 semester includes transfer course work (i.e., course work taken at an institution other than ASU), a student must submit his or her transcripts to the Academic Advising/Student Services office, ARCH 115, no later than June 1. These transcripts may be unofficial copies. A second set of official transcripts must be sent to the university Undergraduate Admissions office. Application is not complete until the university receives official transcripts for transfer course work. For those transfer students whose academic term ends in June rather than May, this deadline may be extended upon the written request of the applicant.

*July 3, 2006.* Acceptance notices are mailed no later than July 3.

**Return of Letter of Acceptance.** A signed receipt of acceptance of admission must be received by the school by the date indicated on the Notice of Acceptance. Alternates may be accepted at a later date if space becomes available.

**Matriculation.** An accepted student is expected to begin his or her upper-division professional program at the beginning of the immediate fall term. There is no spring admission to the upper-division program, and deferrals are not allowed.

**Graphic Design Application Requirements.** Individual applicants are responsible for obtaining the Graphic Design Application Packet by visiting the College of Architecture and Environmental Design Academic Advising Office in ARCH 115. Application materials are submitted in a portfolio organized by the individual applicant. The student's name must be affixed to the outside, with completed materials appearing in the following order:

1. application to the Graphic Design upper-division program;
2. "Commonly Asked Questions" form; and
3. the Graphic Design Aptitude Test.

The packet contains complete instructions for completing the standard test. This test requires the completion of five problems, which are reviewed by the faculty and which become part of the portfolio of materials considered for admission to the upper-division program.

### Industrial and Interior Design Portfolio Format

**Requirements.** Each applicant is responsible for obtaining the following documents and including them in the portfolio. Application materials are submitted at one time in a presentation binder (portfolio); 8.5" x 11" format only. The student's name must be affixed to the outside. Items must appear in the following order:

*Page 1.* The application form should be completely filled out with the first page visible. Application forms are available from the college Academic Advising Office.

*Page 2.* The second page of the application should be visible.

*Page 3.* Application Essay or Letter of Intent.

*Page 4.* All college transcripts for both ASU and transfer work should be included through the fall 2005 semester. Copies are acceptable. An academic advisor forwards 2006

ASU transcripts. (Applicants wishing to transfer spring semester 2006 work are responsible for submitting these transcripts by June 1 so that they may be added to their portfolios. The student is also responsible for getting an official transfer transcript sent directly to the Office of the Registrar.)

*Page 5.* A certificate of admission to ASU is necessary only for those students who have been newly admitted for fall 2006 and who are applying directly into an upper-division program. The certificate is not required for students currently attending ASU.

*Following Pages (Usually from 10 to 20 Sheets).* Students should present work sufficient to demonstrate the depth and breadth of their creative activity. This work should include (but is not limited to) examples of two- and three-dimensional design and graphics. Each project should be clearly identified (course, length of project, etc.), with a concise accompanying description of the assignment.

Students should obtain an application and a portfolio guidelines form for their major from the college's Academic Advising Office, ARCH 115, at the beginning of the academic year in which they intend to apply to the upper-division program. Requirements or instructions indicated in the guidelines for that academic year take precedence over any other printed material.

Students are encouraged to include additional materials, written or pictorial, that provide further evidence of skills, abilities, aptitude, and commitment to the major. When any work submitted is not completely original, the source must be given. When work is of a team nature, the applicant's role should be clearly indicated. Original examples or slides must not be submitted unless specified in the guidelines. All examples must be photographs or other reproduction graphic media.

**Return of Portfolios.** Application documents (pages 1–5) remain the property of the College of Architecture and Environmental Design. However, the remainder of the portfolio is returned after the admissions review, provided the applicant encloses a self-addressed return mailer with sufficient prepaid postage. Portfolios may be claimed in person after July 1, 2006. If the applicant provides written permission, another person may claim the portfolio. After one year, unclaimed portfolios are discarded. While care is taken in handling the portfolios, no liability for lost or damaged materials is assumed by the college or school.

## ADVISING

Advising for the lower- and upper-division curricula is through a college academic advisor (ARCH 115).

## DEGREE REQUIREMENTS

The Bachelor of Science in Design degree requires a minimum of 120 semester hours for a major in Graphic Design, Industrial Design, and Interior Design. The program may include required field trips. Students are responsible for these additional costs. Foreign study opportunities are available for students. An internship is a required part of the program.

## Graphic Design

The curriculum in Graphic Design is divided into a pre-professional (first and second years) and a professional program (third and fourth years):

Preprofessional program .....	61
Professional program .....	59
Total .....	120

The preprofessional curriculum balances a foundation in academic subjects such as English, numeracy, and psychology with design courses that include history and theory, as well as studio courses in drawing and design fundamentals as they relate to conceptual design. Students apply for entry into the professional program after fulfilling two years of the preprofessional program. The upper-division curriculum includes studio work in graphic design and its relationship to problem solving at multiple scales. Projects are intended to educate students to think critically as individuals and as team participants in small and large corporate facilities. A formal eight-week summer internship is required in the professional program. The internship is coordinated by the faculty. Students intern in a variety of settings, including in-house corporate design, publication design, and advertising design agencies.

**General Studies Requirement.** The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses. Note that all three General Studies awareness areas are required. Consult an advisor for an approved list of courses.

**Graduation Requirements.** In addition to fulfilling college and major requirements for this professional degree, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

### School of Design Graphic Design—BSD

#### First Year

<b>Fall</b>		
DSC 101 Design Awareness <i>HU, G</i> .....	3	
ENG 101 First-Year Composition .....	3	
or ENG 105 Advanced First-Year Composition if qualified (3) .....		3
GRA 111 Graphic Design History I <i>HU</i> .....	3	
GRA 121 Principles for Graphic Design I <sup>1</sup> .....	3	
MA elective <sup>2</sup> .....		3
Total .....		15

#### Spring

ARS 102 Art from Renaissance to Present <i>HU, H</i> .....	3	
ENG 102 First-Year Composition .....	3	
or elective if ENG 105 is taken (3) .....		3
GRA 112 Graphic Design History II .....	3	
GRA 122 Principles for Graphic Design II <sup>1</sup> .....	3	

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## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

Computer Science elective <sup>2</sup> .....	3
Total .....	15

### Second Year

<b>Fall</b>	
GRA 220 Design Drawing I.....	3
GRA 221 Letterform <sup>1</sup> .....	3
GRA 222 Visual Communication I <sup>1</sup> .....	3
GRA 225 Communication/Interaction Design Theory .....	3
Literacy and Critical Inquiry elective <sup>2</sup> .....	3
Total .....	15

### Spring

GRA 223 Typography <sup>1</sup> .....	3
GRA 224 Visual Communication II <sup>1</sup> .....	3
PGS 101 Introduction to Psychology <i>SB</i> .....	3
Natural Science Elective with Laboratory <i>SQ</i> <sup>2</sup> .....	4
Elective <sup>2</sup> .....	3
Total .....	16
Preprofessional program total .....	61

### Third Year

<b>Fall</b>	
DSC 440 Finding Purpose .....	3
GRA 321 Technology for Design I .....	3
GRA 361 Visual Communication III <sup>1</sup> .....	5
Natural Science Elective with Laboratory <i>SQ</i> , <i>SG</i> <sup>2</sup> .....	4
Total .....	15

### Spring

GRA 322 Technology for Design II.....	3
GRA 345 Design Rhetoric <i>L</i> .....	3
GRA 362 Visual Communication IV <sup>1</sup> .....	5
Social/Behavioral Science Elective (upper division) <i>SB</i> <sup>2</sup> .....	3
Total .....	14

### Summer

GRA 484 Internship: Graphic Design.....	2
Total .....	2

### Fourth Year

<b>Fall</b>	
GRA 421 Exhibit Design .....	3
GRA 422 Motion Graphics and Interaction Design.....	3
GRA 461 Visual Communication V <sup>1</sup> .....	5
Cultural Awareness elective <sup>2</sup> .....	3
Total .....	14

### Spring

GRA 423 Advanced Interaction Design.....	3
GRA 424 Advanced Media .....	3
GRA 462 Visual Communication VI <sup>1</sup> .....	5
Elective <sup>2</sup> .....	3
Total .....	14
Professional program total .....	59
BSD minimum total .....	120

<sup>1</sup> Transfer credits for the lower-division program must be equivalent in both content and level of offering. Samples of studio work to be accepted for credit must be submitted for evaluation through the college's Academic Advising Office, ARCH 115. Most studio courses and some lecture courses are sequential. They must be taken in, and may be offered only during, the semester noted.

<sup>2</sup> A list of courses that fulfill design electives, general studies, and other electives is available from the college academic advisor.

## Industrial Design

The curriculum in Industrial Design is divided into a pre-professional (first and second years) and a professional program (third and fourth years):

Preprofessional program .....	61
Professional program .....	59
Total .....	120

The preprofessional curriculum balances a foundation in academic subjects such as English, algebra and trigonometry, computing, and physics with design courses that include history as well as studio courses in drawing, design fundamentals, human factors, and materials and processes.

The professional curriculum includes studio and laboratory work in industrial design, graphics, project development, and professional practice. Students also take a number of approved program electives. A supervised summer internship is part of the curriculum.

Upper-division studios emphasize projects that promote an interdisciplinary approach to solving problems and that develop the student's intellectual understanding of the philosophy, methodology, and theories related to industrial design. Problems proceed from small consumer products with simple task functions to larger and more complex problems and systems. Studio projects also emphasize the design processes: problem resolution through concept ideation, dialogue with specialists in related areas, and product development, presentation, and marketing.

Graduates of the program accept positions in industry and with firms involved in industrial design. Designers may focus on consumer products, electronics, medical devices, health products, or recreational products, among others. Designers may also choose to continue their education with graduate studies to enrich their design knowledge, to specialize, or to prepare for college-level teaching.

**General Studies Requirement.** The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses. Note that all three General Studies awareness areas are required. Consult an advisor for an approved list of courses.

**Graduation Requirements.** In addition to fulfilling college and major requirements, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

### Industrial Design—BSD Preprofessional Program Requirements<sup>1</sup>

#### First Year

#### Fall

DSC 101 Design Awareness <i>HU</i> , <i>G</i> .....	3
ENG 101 First-Year Composition.....	3
or ENG 105 Advanced First-Year Composition (3) if qualified	
IND 120 Drawing for Industrial Design <sup>1</sup> .....	3
MAT 170 Precalculus <i>MA</i> .....	3
Elective .....	3
Total .....	15

**Spring**

ENG 102	First-Year Composition.....	3
	or elective if ENG 105 is taken (3).....	
IND 121	Principles for Industrial Design I <sup>1</sup> .....	3
IND 122	Principles for Industrial Design II <sup>1</sup> .....	3
PGS 101	Introduction to Psychology <i>SB</i> .....	3
PHY 111	General Physics <i>SQ</i> <sup>2</sup> .....	3
PHY 113	General Physics Laboratory <i>SQ</i> <sup>2</sup> .....	1
Total	.....	16

**Second Year****Fall**

IND 227	Visual Methods for Problem Solving.....	3
IND 236	Introduction to Computer Modeling for Industrial Design.....	3
IND 242	Materials and Design.....	3
IND 260	Industrial Design I.....	3
IND 316	20th-Century Design I <i>HU, H</i> .....	3
Total	.....	15

**Spring**

ECN 112	Microeconomic Principles <i>SB</i> .....	3
IND 228	Imaging and Visualization.....	3
IND 243	Process and Design.....	3
IND 261	Industrial Design II.....	3
IND 317	20th-Century Design II <i>HU, H</i> .....	3
Total	.....	15
Preprofessional program total	.....	61

<sup>1</sup> Transfer credits for the lower-division program must be equivalent in both content and level of offering. Samples of studio work to be accepted for credit must be submitted for evaluation through the college's Academic Advising Office, ARCH 115. Most studio courses and some lecture courses are sequential. They must be taken in, and may be offered only during, the semester noted.

<sup>2</sup> Both PHY 111 and 113 must be taken to secure *SQ* credit.

**Industrial Design—BSD  
Professional Program Requirements**

**Third Year****Fall**

DSC 344	Human Factors in Design.....	3
IND 327	Presentation Graphics.....	3
IND 354	Principles of Product Design.....	3
IND 360	Industrial Design III.....	5
Total	.....	14

**Spring**

IND 328	Graphics for Industrial Design.....	3
IND 361	Industrial Design IV.....	5
MKT 382	Advertising and Marketing Communication.....	3
Elective.....	.....	3
Total	.....	14

**Summer**

IND 484	Internship: Industrial Design.....	2
Total	.....	2

**Fourth Year****Fall**

ENG 301	Writing for the Professions <i>L</i> .....	3
IND 460	Design Project I.....	5
IND 470	Professional Practice for Industrial Design <i>L</i> .....	3
Elective.....	.....	3
Total	.....	14

**Spring**

IND 461	Design Project II.....	5
Elective.....	.....	3
C elective.....	.....	3
<i>SQ, SG</i> elective with approved laboratory.....	.....	4
Total	.....	15
Professional program total	.....	59
BSD minimum total	.....	120

**Interior Design**

The curriculum in Interior Design is divided into a pre-professional program (first and second year) and a professional program (third and fourth year):

Preprofessional program.....	59
Professional program.....	61
Total.....	120

The preprofessional curriculum balances a foundation in academic subjects such as English, algebra and trigonometry, computer technology, and physics with design courses that include history and theory, as well as studio courses in drawing, design fundamentals, and conceptual design.

The professional curriculum includes studio work in interior design, construction methods/structures, codes as related to materials and finishes, environmental control systems, as well as lecture courses in the history of interior design. An eight-week supervised summer internship is part of the curriculum.

Graduates from the program accept entry-level professional positions in a variety of settings, including interior design firms, departments of space planning, architectural firms, public institutions, and industry. Students may also choose to continue their education through graduate studies, which provide greater enrichment in studio disciplines and contribute to the possibility for postsecondary-level academic appointments.

**General Studies Requirement.** The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses. Note that all three General Studies awareness areas are required. Consult an advisor for an approved list of courses.

**Graduation Requirements.** In addition to fulfilling college and major requirements, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

*L* literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

### Interior Design—BSD Preprofessional Program Requirements<sup>1</sup>

#### First Year

<b>Fall</b>	
DSC 101	Design Awareness <i>HU, G</i> .....3
ENG 101	First-Year Composition.....3
	or ENG 105 Advanced First-Year Composition (3)
	if qualified
INT 111	Interior Design Issues and Theories <i>HU</i> .....3
INT 121	Introduction to Computer Modeling for
	Interior Design <i>CS</i> <sup>1</sup> .....3
MAT 170	Precalculus <i>MA</i> .....3
Total	.....15

<b>Spring</b>	
ENG 102	First-Year Composition.....3
INT 120	Design Drawing and Media .....3
INT 131	Design and Human Behavior <i>SB</i> .....3
INT 238	Introduction to Computer-Aided Design of Built
	Environments .....3
PHY 111	General Physics <i>SQ</i> <sup>2</sup> .....3
PHY 113	General Physics Laboratory <i>SQ</i> <sup>2</sup> .....1
Total	.....16

#### Second Year

<b>Fall</b>	
INT 221	Principles of Design <sup>1</sup> .....3
INT 222	Principles of Design Lecture <sup>1</sup> .....1
INT 223	Drafting for Interior Design <sup>1</sup> .....3
L elective	.....3
SB elective	.....3
Elective	.....3
Total	.....16

<b>Spring</b>	
ARS 102	Art from Renaissance to Present <i>HU, H</i> .....3
INT 261	Interior Design Studio I: Residential <sup>1</sup> .....3
SQ or SG elective	.....4
Elective	.....3
Total	.....13
Lower-division total	.....60

<sup>1</sup> Transfer credits for the lower-division program must be equivalent in both content and level of offering. Samples of studio work to be accepted for credit must be submitted for evaluation through the college's Academic Advising Office, ARCH 115. Most studio courses and some lecture courses are sequential. They must be taken in, and may be offered only during, the semester noted.

<sup>2</sup> Both PHY 111 and 113 must be taken to secure SQ credit.

### Interior Design—BSD Professional Program Requirements

#### Third Year

<b>Fall</b>	
INT 211	Concepts for Interior Design*.....3
INT 310	History of Interior Design I <i>HU, H</i> .....3
INT 352	Construction Methods in Interior Design .....3
INT 362	Interior Design Studio II: Hospitality and Retail.....5
INT 381	Preinternship Seminar.....1
Total	.....15

#### Spring

INT 311	History of Interior Design II <i>HU, H</i> .....3
INT 351	Lighting for Interior Design.....3
INT 353	Interior Materials, Finishes, and Specifications.....3
INT 363	Interior Design Studio III: Poetics and Materiality .....5

Total .....14

#### Summer

INT 484	Internship .....2
Total	.....2

#### Fourth Year

##### Fall

INT 341	Interior Codes: Public Welfare and Safety.....2
INT 464	Interior Design Studio IV: Work Environments.....5
INT 471	Facilities Management .....3
L elective (upper division)	.....3
Elective	.....3
Total	.....16

##### Spring

INT 465	Interior Design Studio V: Institutional Design .....5
INT 472	Professional Practice for Interior Design.....2
Elective	.....3
Elective	.....3
Total	.....13
Upper-division total	.....60
BSD minimum total	.....120

\* Transfer credits for the lower-division program must be equivalent in both content and level of offering. Samples of studio work to be accepted for credit must be submitted for evaluation through the college's Academic Advising Office, ARCH 115. Most studio courses and some lecture courses are sequential. They must be taken in, and may be offered only during, the semester noted.

## INQUIRIES

For more information, contact a college academic advisor at 480/965-3584, send e-mail to [caed.advising@asu.edu](mailto:caed.advising@asu.edu), or write

ACADEMIC ADVISING/STUDENT SERVICES  
OFFICE  
COLLEGE OF ARCHITECTURE AND  
ENVIRONMENTAL DESIGN  
ARIZONA STATE UNIVERSITY  
PO BOX 871905  
TEMPE AZ 85287-1905

## DESIGN (DSC)

### DSC 100 Introduction to Environmental Design. (3)

*fall and spring*

Survey of environmental design: includes historic examples and the theoretical, social, technical, and environmental forces that shape them.

*General Studies: HU, G, H*

### DSC 101 Design Awareness. (3)

*fall and spring*

Survey of cultural, global, and historical context for the design professions.

*General Studies: HU, G*

**DSC 236 Introduction to Computer Modeling. (3)***fall and spring*

Computers in design, including software concepts, specific packages, and problem solving, illustration, typography, modeling, and animation. Lab. Prerequisite: Design major.

*General Studies: CS***DSC 344 Human Factors in Design. (3)***fall*

Man-machine environment systems; human characteristics and behavior applied to design of products, systems, and their operating environment.

**DSC 440 Finding Purpose. (3)***fall and spring*

Career orientation in the creative professions, including value clarification, decision making, lifestyle planning, goal setting, and expression of individual talents.

**DSC 484 Internship. (1–3)***summer*

Full-time summer internship under supervision of practitioners in the Phoenix area or other locales. Prerequisite: instructor approval.

**DSC 494 Special Topics. (1–4)***fall and spring*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

**GRAPHIC DESIGN (GRA)****GRA 286 Visual Communication II. (3)***Effective through fall 2005*

Transition from theoretical to applied problems. Emphasizes refinement of visual skills. 6 hours a week. Fee. Prerequisite: acceptance into Graphic Design professional program.

**GRA 383 Typography I. (3)***Effective through fall 2005*

Theoretical exercises in spatial and textural qualities of type. Problems in tension, activation, and balance. Exercises in simple typographical applications. 6 hours a week. Fee. Prerequisite: GRA 286. Corequisite: GRA 386.

**GRA 385 Typography II. (3)***Effective through spring 2006*

Problems in composition, choice, and combinations of typefaces, formats, and their application to a variety of design projects. 6 hours a week. Fee. Prerequisite: GRA 383. Corequisite: GRA 387.

**GRA 386 Visual Communication III. (3)***Effective through fall 2005*

Problems in specific design applications such as poster, packaging, publications. Emphasizes development of concepts in visual communications. 6 hours a week. Fee. Prerequisite: GRA 286. Corequisite: GRA 383.

**GRA 387 Visual Communication IV. (3)***Effective through spring 2006*

Client-oriented projects. Multifaceted problems with emphases on continuity of design in more than one medium and format. 6 hours a week. Fee. Prerequisites: GRA 383, 386. Corequisite: GRA 385.

**GRA 481 Visual Communication V. (3)***Effective through fall 2006*

Studio problems with emphasis on analysis, problem solving, and professional portfolio preparation. 6 hours a week. Fee. Prerequisites: GRA 385, 387.

**GRA 482 Visual Communication VI. (3)***Effective through spring 2007*

Individual and group projects with outside clients. All projects culminate in an exhibit. 6 hours a week. Fee. Prerequisite: GRA 481.

**GRA 484 Internship: Graphic Design. (1–3)***Effective through summer 2006*

Full-time summer internship under supervision of practitioners in the Phoenix area or other locales. Prerequisite: GRA 387.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**GRAPHIC DESIGN (GRA)****New Curriculum****Effective Fall 2004****GRA 111 Graphic Design History I. (3)***fall*

Surveys development of visual communication from its origins to the 20th century. Investigates significant technological, industrial, and social influences.

*General Studies: HU***GRA 112 Graphic Design History II. (3)***spring*

Surveys contemporary and 20th-century graphic design. Investigates relationships between graphic design and related disciplines, technological, industrial, and social influences. Prerequisite: GRA 111.

**GRA 121 Principles for Graphic Design I. (3)***fall*

Graphic design as a language and process for creative thinking and realization. Studio. Prerequisite: Graphic Design major. Corequisite for Graphic Design majors: GRA 111.

**GRA 122 Principles for Graphic Design II. (3)***spring*

Continued exploration of graphic design as a language and process for creative thinking and realization. Studio. Prerequisite: GRA 121. Corequisite for Graphic Design majors: GRA 112.

**GRA 194 Special Topics. (1–4)***selected semesters***GRA 220 Design Drawing I. (3)***fall*

Drawing as language to explore and communicate ideas. Development of drawing aptitude as language and process for graphic design thinking. Studio. Prerequisite: GRA 122.

**GRA 221 Letterform. (3)***fall*

Drawing of letterforms with focus on proportion and structure. Introduces letterform nomenclature and classifications. 6 hours a week. Fee. Prerequisites: GRA 122. Corequisite: GRA 222.

**GRA 222 Visual Communication I. (3)***fall*

Theoretical and applied studies in shape, drawing, and color. 6 hours a week. Fee. Prerequisite: GRA 122. Corequisite: GRA 221.

**GRA 223 Typography. (3)***spring*

Theoretical exercises in spatial and textural qualities of type. Problems in tension, activation, and balance. Exercises in simple typographical applications. 6 hours a week. Fee. Prerequisite: GRA 221. Corequisite: GRA 224.

**GRA 224 Visual Communication II. (3)***spring*

Transition from theoretical to applied problems. Emphasizes refinement of visual skills. 6 hours a week. Fee. Prerequisite: GRA 222. Corequisite: GRA 223.

**GRA 225 Communication/Interaction Design Theory. (3)***fall*

Theory related to the design of communication artifacts and interaction within various media environments. Prerequisite: GRA 122 or instructor approval.

**GRA 294 Special Topics. (1–4)***selected semesters*

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

### **GRA 321 Technology for Design I. p(3)**

*Effective fall 2006*

Explores the process of technology in design. Projects interface with GRA 361. Prerequisite: admission to upper-division program. Corequisite: GRA 361.

### **GRA 322 Technology for Design II. p(3)**

*Effective spring 2007*

Emphasizes advanced technology in design problems. Projects interface with GRA 362. Prerequisite: GRA 321. Corequisite: GRA 362.

### **GRA 345 Design Rhetoric. (3)**

*fall and spring*

Develops critical thinking and expression of ideas in concise and persuasive written and spoken form. Prerequisites: ENG 101, 102. *General Studies: L*

### **GRA 361 Visual Communication III. (5)**

*Effective fall 2006*

Explores methodologies of strategic communication, development of visual systems, and information design ideation processes leading to applied projects in print and digital media. Studio. Fee. Prerequisites: GRA 223, 224; admission to upper-division program. Corequisite: GRA 321.

### **GRA 362 Visual Communication IV. (5)**

*Effective spring 2007*

Comprehensive studio projects with emphasis on production processes leading to multidisciplinary applied projects in print, 3-D space, and digital media. Studio. Fee. Prerequisite: GRA 361. Corequisite: GRA 322.

### **GRA 382 Graphic Representation. (3)**

*fall*

Studio practice in drawing with an application toward graphic communication. 6 hours a week. May be repeated once for credit. Fee. Prerequisite: GRA 222.

### **GRA 394 Special Topics. (1–4)**

*selected semesters*

### **GRA 421 Exhibit Design. p(3)**

*fall*

Familiarization with the processes associated with the design of exhibits, especially visual communication in 3-D. Studio. Prerequisite: GRA 362 or instructor approval.

### **GRA 422 Motion Graphics and Interaction Design. p(3)**

*fall*

Discusses and explores theory related to the design of motion graphics and interaction through lectures and studio projects. Studio. Prerequisite: GRA 322 or instructor approval.

### **GRA 423 Advanced Interaction Design. (3)**

*spring*

Advanced discussion and exploration of theory related to the design of interaction. Prerequisite: GRA 422 or instructor approval.

### **GRA 424 Advanced Media. (3)**

*spring*

Advanced exploration of digital media for communication. Studio. Prerequisite: GRA 422. Corequisite for Graphic Design majors: GRA 462.

### **GRA 461 Visual Communication V. (5)**

*Effective fall 2007*

Comprehensive studio projects with emphasis on design processes, including research, writing, critical thinking, practice, presentation, and analysis. Studio. Fee. Prerequisite: GRA 362.

### **GRA 462 Visual Communication VI. (5)**

*Effective spring 2008*

Comprehensive studio projects pursued in cooperation with a public organization or private enterprise. All projects culminate in an exhibit. Studio. Fee. Prerequisite: GRA 461.

### **GRA 484 Internship: Graphic Design. (1–3)**

*Effective summer 2007*

Full-time summer internship under supervision of practitioners in the Phoenix area or other locales. Students must register for GRA 484 in the fall semester following their summer internship. Prerequisite: GRA 362.

### **GRA 494 Special Topics. (1–4)**

*selected semesters*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

## **INDUSTRIAL DESIGN (IND)**

### **IND 120 Drawing for Industrial Design. (3)**

*fall*

Drawing as language to explore and communicate ideas. Development of drawing aptitude as language and process for industrial design thinking. Studio. Prerequisite: Industrial Design major.

### **IND 121 Principles for Industrial Design I. (3)**

*spring*

Industrial design as a language and process for creative thinking and realization. Studio. Prerequisite: Industrial Design major. Corequisite: IND 122.

### **IND 122 Principles for Industrial Design II. (3)**

*spring*

Continued exploration of industrial design as a language and process for creative thinking and realization. Studio. Prerequisite: Industrial Design major. Corequisite: IND 121.

### **IND 194 Special Topics. (1–4)**

*selected semesters*

### **IND 227 Visual Methods for Problem Solving. (3)**

*fall*

Introduces conceptual design activity based on the mind-eye-media feedback loop. Graphic language used to represent conjecture, analysis, synthesis of objects, and their contexts. Seminar, studio. Prerequisite: IND 122.

### **IND 228 Imaging and Visualization. (3)**

*spring*

Design activities stressing graphic language abstraction practiced for presentation. Discusses structure of criticism, including description, interpretation, and evaluation. Seminar, studio. Prerequisite: IND 227.

### **IND 236 Introduction to Computer Modeling for Industrial Design. (3)**

*fall and spring*

Computers in industrial design, including software concepts, specific packages, and problem solving, illustration, typography, modeling, and animation. Lab. Prerequisite: Industrial Design major.

### **IND 242 Materials and Design. (3)**

*fall*

Materials application in design. Introduces characteristics and properties of metals and organic materials, including plastics, and inorganic materials.

### **IND 243 Process and Design. (3)**

*spring*

Influences of industrial processing on design. Introduces basic materials processing and post-forming processes. Emphasizes appearance enhancement and design constraints of material processing. Prerequisite: IND 242.

### **IND 260 Industrial Design I. (3)**

*fall*

Introduces the method and process of the industrial designer. Determinants necessary in small product design. 1 hour lecture, 2 hours studio. Prerequisite: IND 122.

### **IND 261 Industrial Design II. (3)**

*spring*

Issues of physical form development related to product and design; form development properties of paper, fibers, wood, metal, and plastics. 1 hour lecture, 2 hours studio. Prerequisite: IND 260 (or its equivalent).

### **IND 316 20th-Century Design I. (3)**

*fall*

Modern European and American design from 1900 to 1940. Emphasizes transportation, product, furniture, exhibition, and graphic design.

*General Studies: HU, H*

**IND 317 20th-Century Design II. (3)***spring*

Modern European, Asian, and American design since 1940. Emphasizes transportation, product, furniture, exhibition, and graphic design.

*General Studies: HU, H***IND 327 Presentation Graphics. (3)***fall*

Studies methods for portfolio and professional product presentation using graphic media for information transfer. Stresses aesthetic judgment, organization, and craftsmanship. Seminar, studio. Prerequisite: acceptance into Industrial Design professional program.

**IND 328 Graphics for Industrial Design. (3)***spring*

Investigates and applies packaging applications and planning to the development of an identity for a product line structured as a system. Lab. Prerequisite: IND 327.

**IND 354 Principles of Product Design. (3)***fall*

Influences of physical and mechanical concepts in product design; mechanisms, kinematics, and fastening systems. Concepts of analysis for product design. Influences of concepts on aesthetics. Prerequisite: PHY 111.

**IND 360 Industrial Design III. (5)***fall*

Methods of visual thinking, conceptualization, and ideation related to building skill levels in professional design presentation techniques. 10 hours studio. Fee. Prerequisite: school approval.

**IND 361 Industrial Design IV. (5)***spring*

Emphasizes developing ideas into a complete functional product, including survey and application of aesthetics, human factors, materials, and manufacturing. 10 hours studio. Fee. Prerequisite: IND 360.

**IND 460 Design Project I. (5)***fall*

Complete analysis of the product unit as an element of mass production, featuring marketing, technology, human factors, and visual design. Emphasizes professional standards. 10 hours studio. Fee. Prerequisites: DSC 484; IND 361.

**IND 461 Design Project II. (5)***spring*

Product design, with emphasis in systems interaction. Culmination of design process and technique. Encourages individual project direction. 10 hours studio. Fee. Prerequisite: IND 460.

**IND 470 Professional Practice for Industrial Design. (3)***fall*

Business procedures, management techniques, accounting systems, ethics, and legal responsibilities of the design professions. May be repeated for credit. Prerequisite: senior standing.

*General Studies: L***IND 474 Design Seminar. (3)***spring*

Manufacturer's liability, statutes, regulations, and common law rules; role of expert witnesses; insurance and product safety programs. Seminar. Prerequisite: senior standing.

**IND 484 Internship: Industrial Design. (1–3)***summer*

Full-time summer internship under supervision of practitioners in the Phoenix area or other locales. Students must register for IND 484 in the fall semester following their summer internship. Prerequisite: IND 361.

**IND 494 Special Topics. (3)***selected semesters*

Applies mechanical drafting knowledge and skills. Manual drafting principles and techniques with transition to computer-aided industrial design.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**INTERIOR DESIGN (INT)****INT 111 Interior Design Issues and Theories. (3)***fall*

Interiors issues, theories, and philosophies. Emphasizes unique social and cultural factors that shape 20th-century design concepts.

*General Studies: HU***INT 120 Design Drawing and Media. (3)***spring*

Visual thinking: Development of freehand drawing techniques as a language and tool to explore, communicate, and process ideas. Studio. Prerequisite: Interior Design major.

**INT 121 Introduction to Computer Modeling for Interior Design. (3)***fall and spring*

Computers in interior design, including software concepts, specific packages, and problem solving, illustration, typography, modeling, and animation. Lab. Prerequisite: Interior Design major.

*General Studies: CS***INT 131 Design and Human Behavior. (3)***spring*

Applies conceptual design to issues of programming and space planning, user needs, and behavior.

*General Studies: SB***INT 194 Special Topics. (1–4)***fall*

Topics may include the following:

- Drafting for Interior Design. (3)

**INT 211 Concepts for Interior Design. (3)***spring*

Conceptual design development, including scale and proportion, light, texture, form, volume, and spatial hierarchy; passage and repose. 1 hour lecture, 4 hours lab. Prerequisite: INT 121.

**INT 221 Principles of Design. (3)***fall*

Applied visual vocabulary; studio experience exploring applications, process, and conceptual development of the principles of order and composition. Studio. Prerequisite: INT 120. Corequisite: INT 222.

**INT 222 Principles of Design Lecture. (1)***fall*

Applications of the visual vocabulary; explores the principles of organization through examination of historical precedence and contemporary interior design. Corequisite: INT 221.

**INT 223 Drafting for Interior Design. (3)***fall*

Orthographic, paraline, axonometric, and perspective projection; shades and shadows; and basic descriptive geometry for interior designers. Studio. Prerequisite: Interior Design major.

**INT 238 Introduction to Computer-Aided Design of Built Environments. (3)***spring*

Introduces AutoCAD computer-aided design principles and strategies for designers of the built environment. Lecture, lab.

**INT 261 Interior Design Studio I: Residential. (3)***spring*

Studio problems in interior design related to behavioral response in personal and small-group spaces. Studio. Prerequisite: INT 221.

**INT 294 Special Topics. (1–4)***selected semesters*

Topics may include the following:

- AutoCad. (3)

**INT 310 History of Interior Design I. (3)***fall*

Design of interior spaces as an expression of cultural influences to 1835. Prerequisite: ARS 102.

*General Studies: HU, H*

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/ quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SO** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

### **INT 311 History of Interior Design II. (3)**

*spring*

Design of interiors as an expression of cultural influences from 1835 to the present. Prerequisite: INT 310 or instructor approval.

*General Studies: HU, H*

### **INT 341 Interior Codes: Public Welfare and Safety. (2)**

*fall*

Codes and regulations as performance criteria for interior design.

Prerequisite: admission to upper-division program. Corequisites: INT 352, 362, 381.

### **INT 351 Lighting for Interior Design. (3)**

*spring*

Light as an aspect of interior design. Evaluation of light sources for distribution, color, and cost. Prerequisite: admission to upper-division program. Corequisites: INT 353, 363.

### **INT 352 Construction Methods in Interior Design. (3)**

*fall*

Design theory related to analysis, materials, and building techniques of horizontal and vertical construction in interior design. Lecture, field trips. Prerequisite: admission to upper-division program. Corequisites: INT 341, 362, 381.

### **INT 353 Interior Materials, Finishes, and Specifications. (3)**

*spring*

Survey, evaluation, and specification of materials, finishes, and performance criteria for interiors. Prerequisite: admission to upper-division program. Corequisites: INT 351, 363.

### **INT 362 Interior Design Studio II: Hospitality and Retail. (5)**

*fall*

Investigates interior design issues in hospitality and retail environments. 10 hours studio. Fee. Prerequisite: admission to upper-division program. Corequisites: INT 341, 352, 381.

### **INT 363 Interior Design Studio III: Poetics and Materiality. (5)**

*spring*

Explores the poetics of materials and their assemblage in the design of public and private spaces. 10 hours studio. Fee. Prerequisite: INT 362. Corequisites: INT 351, 353.

### **INT 381 Preinternship Seminar. (1)**

*fall*

Preparation of internship materials that produce and enhance a successful internship experience. Seminar. Prerequisite: 3rd-year major in the School of Design.

### **INT 412 History of Decorative Arts in Interiors. (3)**

*fall*

Design of decorative arts as an expression of cultural influences and as an extension of interior spaces. Prerequisite: INT 311 or instructor approval.

*General Studies: HU*

### **INT 413 History of Textiles in Interior Design. (3)**

*spring*

Cultural and historical expression of textiles as related to interiors. Possible field trips. Prerequisite: INT 412 or instructor approval.

### **INT 446 Furniture Design and Production. (3)**

*fall*

Design, construction, cost estimating, and installation in interior furniture and millwork. 1 hour lecture, 4 hours studio. Prerequisite: acceptance into Interior Design professional program or instructor approval.

### **INT 451 Ambient Environment. (3)**

*spring*

Surveys environmental control systems, acoustics, and lighting issues in interiors. Lecture, field trips. Prerequisite: admission to upper-division program. Corequisite: INT 465.

### **INT 464 Interior Design Studio IV: Work Environments. (5)**

*fall*

Studio problems in interior design-related issues in work environments. 10 hours studio. Fee. Prerequisite: INT 363.

### **INT 465 Interior Design Studio V: Institutional Design. (5)**

*spring*

Advanced interior design problem solving related to institutional facilities. 10 hours studio. Fee. Prerequisite: INT 464. Corequisite: INT 451.

### **INT 466 Interior Design Studio. (5)**

*fall*

Advanced interior design problem solving, design theory, and criticism. Thesis project development based upon the major's concentration. 10 hours studio. Fee. Prerequisite: INT 465.

### **INT 467 Interior Design Studio. (5)**

*spring*

Advanced series of specialized projects or continuation of thesis project based upon the major's concentration. 10 hours studio. Fee. Prerequisite: INT 466.

### **INT 471 Facilities Management. (3)**

*fall*

Facility management process in large-scale organizations. Planning, long-range forecasting, and productivity. Project management methodologies using micro-based software programs. Prerequisite: admission to upper-division program.

### **INT 472 Professional Practice for Interior Design. (2)**

*spring*

Business procedures, project control, fee structures, and professional product liabilities. Prerequisite: admission to upper-division program.

### **INT 484 Internship: Interior Design. (2)**

*summer*

Full-time summer internship under supervision of practitioners in the Phoenix area or other locales. Students must register for INT 484 in the fall semester following their summer internship. Prerequisite: INT 363.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

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## School of Planning

[www.asu.edu/caed/SPLA](http://www.asu.edu/caed/SPLA)

480/965-7167

AED 158

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### **Hemalata Dandekar, Director**

**Professors:** Dandekar, Kihl, Lai, Pijawka

**Associate Professors:** Cameron, Crewe, Guhathakurta, Kim, Yabes

**Assistant Professors:** Balsas, Lara Valencia

**Professor of Practice:** Tiger

**Faculty Associates:** Abele, Adhikari, Boozer, Borushko, Brennan, Cromarty, Dornfield, Dworkin, Gammage, Hartman, Keane, Kulaga, Newcombe, Pearce, Piper, Sender, Starkey, Stephenson, Sumner

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## PURPOSE

The faculty in the School of Planning offer curricula that provide an education for careers in environmental planning, housing and urban development, urban and regional planning, and urban design. The goal of the faculty is to advance the profession of planning through scholarship, teaching, research, and community service.

Planners work on projects that range in scale from site development to the design of entire communities and the formulation of policies that shape urban and regional



growth. Planning graduates work for private firms, government agencies, and nonprofit organizations. Their work typically involves fields such as land-use planning, housing, natural resource management, urban transportation, development controls, and environmental impact assessment.

## ORGANIZATION

The programs are organized by the faculty of the school under the direction and administration of the program coordinators and the school director.

## DEGREES

The faculty in the School of Planning offer the Bachelor of Science in Planning degree in Urban Planning, and the Bachelor of Science in Design degree in Housing and Urban Development.

### Bachelor of Science in Planning (BSP)

The BSP degree prepares students for careers in urban planning. Students take courses that include comprehensive planning, socioeconomic and environmental analysis, computer and analytical methods, planning law, site planning, landscape architecture, urban design, and public-policy formulation and administration. An internship or an approved elective is required between the third and fourth years. Many students continue to specialize in planning at the graduate level. Students in planning are exposed to the theories, methods, and practices of the profession of planning.

### Bachelor of Science in Design (BSD)

A BSD degree with a major in Housing and Urban Development (HUD) educates and trains professionals to lead in the production of high-quality affordable housing, in the development of creatively designed and soundly planned neighborhoods and communities, in the revitalization of communities, and in the exemplification of social inclusiveness and environmental sensitivity in responsible land development. HUD graduates may pursue careers in the private home development industry, in publicly sponsored housing and community redevelopment, with nonprofit housing agencies, or in postgraduate housing and urban development research and education. The BSD degree with a major in Housing and Urban Development is offered in conjunction with the College of Extended Education.

## MINOR

### Urban Planning

The minor in Urban Planning is designed for students who are interested in the field but who wish to pursue other majors. The course selection is designed to provide an overview of the field and offer information of broad appeal.

All students must complete a minimum of 15 semester hours from the following courses:

PUP 100	Introduction to Environmental Design <i>HU, G, H</i>	3
PUP 190	Sustainable Cities <i>SB, G</i>	3
PUP 200	The Planned Environment <i>HU, H</i>	3
PUP 301	Introduction to Urban Planning <i>L*</i>	3
PUP 363	History of Planning	3
PUP 420	Theory of Urban Design <i>HU</i>	3
PUP 425	Urban Housing Analysis	3
PUP 430	Transportation Planning and the Environment	3

PUP 432	Planning and Development Control Law	3
PUP 433	Zoning Ordinances, Subdivision Regulations, and Building Codes	3
PUP 434	Urban Land Economics	3
PUP 442	Environmental Planning	3
PUP 444	Preservation Planning	3
PUP 445	Women and Environments <i>C</i>	3
PUP 452	Ethics and Theory in Planning <i>L</i>	3
PUP 475	Environmental Impact Assessment	3
PUP 485	International Field Studies in Planning <i>G</i>	3
PUP 510	Citizen Participation	3

\* PUP 301 Introduction to Urban Planning is required.

The minor is open to students of all majors. Students must, however, have an overall GPA of 2.50 or higher and achieve a minimum 2.50 GPA in minor classes to be awarded the minor. Students seeking admission to the minor in Urban Planning must submit a minor verification form to the student coordinator in the School of Planning.

## BIS CONCENTRATIONS

A concentration in urban planning is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 124.

## GRADUATE PROGRAMS

School of Planning faculty offer a Master of Urban and Environmental Planning (MUEP) degree. This is an interdisciplinary, professional degree designed to prepare students for leadership roles in planning within both the public and private sectors and from local to international organizations. Two specializations are offered: community and urban development, and environmental planning. The community and urban development specialization provides students with knowledge and skills in areas such as housing, economic and community development, public policy analysis, transportation, land use planning, urban design, and historic preservation. The environmental planning specialization provides students with knowledge and skills in such areas as sustainable design, environmental resources, growth management, environmental policy analysis, open space design, and conservation. Faculty also participate in offering a collegewide, interdisciplinary PhD degree in Environmental Design and Planning with concentrations in design; history, theory, and criticism; and planning. For more information, see the *Graduate Catalog*.

## ADMISSION

**Lower-Division Program.** New and transfer students who have been admitted to the university and who have selected

*L* literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

a program in the School of Planning are admitted to the lower-division program. Transfer credits for the lower-division program are reviewed by the college and evaluated for applicability to this curriculum. To be applicable, transfer courses must be equivalent in both content and level of offering. See a college academic advisor for an appointment.

Completion of lower-division requirements does not ensure acceptance to the upper-division professional program. Admission to the upper division is competitive and limited to the space available. Admission requires formal application and acceptance.

**Upper-Division Program.** Admission to the upper-division programs of the School of Planning and Landscape Architecture is limited to applicants who have completed the lower-division program requirements and who are determined by the admissions committee to have the best potential for academic success. Spaces in the program are limited by available facilities, faculty, and qualified applicants. A minimum lower-division program GPA of 3.00 may be required. See "Application to Upper-Division Programs," page 160.

Students not admitted to upper-division programs are not dismissed from the university and may reapply later or may transfer to other programs. Students who plan to reapply should meet with a college academic advisor.

### APPLICATION TO UPPER-DIVISION PROGRAMS

**Upper-Division Application Procedures.** Students should see a college academic advisor for the application form well in advance of the application deadline.

Urban Planning, and Housing and Urban Development students in good standing who will complete all required lower-division courses by the end of the spring semester of their sophomore year may apply for admission to the upper-division in April of their sophomore year.

**Upper-Division Application Deadlines.** *April 14, 2006.* Urban Planning, and Housing and Urban Development application and optional portfolio documents due in the school office by 5 P.M.

*June 1, 2006.* Urban Planning, and Housing and Urban Development students must submit transcripts of non-ASU course work if their spring semester includes course work taken at another institution. These transcripts may be unofficial copies.

**Official Transcripts.** A second set of official transcripts must be sent to the university's Office of the Registrar. An application is not complete until the university receives official transcripts for transfer course work.

*July 3, 2006.* Acceptance notices are mailed no later than July 3.

**Return of Letter of Acceptance.** A signed receipt of acceptance of admission must be received by the school by the date indicated on the Notice of Acceptance. Alternates may be accepted at a later date if space becomes available.

**Matriculation.** An accepted student is expected to begin his or her upper-division professional program at the beginning

of the immediate fall term for Urban Planning, and Housing and Urban Development. Deferrals are not allowed.

**Admission Requirements.** Each applicant is responsible for obtaining the following documents:

1. a statement of intent describing the applicant's specific background and interest in the major;
2. latest college-level transcript(s) (no high school transcripts are required);
3. one example of written work (e.g., a class paper); and
4. samples of individual work; team work can be included, but the contribution of the candidate must be clarified.

Students are also strongly encouraged to submit evidence of other endeavors related to the major. The applicant's GPA based on required courses and cumulative GPA is evaluated. Housing and Urban Development students completing the Phoenix Community College (PCC) articulation program with the BSD-HUD program should submit similar material from PCC.

### ADVISING

Advising for the lower-division curriculum is provided through a college academic advisor. Advising for the upper-division curriculum is provided by the school's faculty and student coordinator.

### DEGREE REQUIREMENTS

#### Urban Planning

The Bachelor of Science in Planning degree requires a total of 120 semester hours.

Preprofessional program courses.....	60
Professional program courses.....	60
Total .....	120

**General Studies Requirement.** The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses. Note that all three General Studies awareness areas are required. Consult an advisor for an approved list of courses.

**Graduation Requirements.** In addition to fulfilling college and major requirements, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

#### Bachelor of Science in Planning, Major in Urban Planning Preprofessional Program Requirements\*

##### First Year

<b>Fall</b>	
ENG 101 First-Year Composition.....	3
or ENG 105 Advanced First-Year Composition (3)	
PUP 100 Introduction to Environmental Design HU, G, H .....	3
G electives.....	6

MA elective.....	3
Total .....	15

**Spring**

ENG 102 First-Year Composition.....	3
or elective if ENG 105 is taken (3)	
C elective.....	3
Elective.....	3
SB elective .....	3
SQ elective .....	4
Total .....	16

**Second Year****Fall**

PUP 190 Sustainable Cities <i>HU/SB, G</i> .....	3
PUP 200 or any HU elective .....	3
Electives .....	6
SB elective .....	3
Total .....	15

**Spring**

PUP 301 Introduction to Urban Planning <i>L</i> .....	3
or elective	
Electives .....	6
Free elective .....	1
SQ or SG elective.....	4
Total .....	14
Preprofessional program total .....	60

\* Transfer credits are reviewed by the college and evaluated as applicable to this curriculum. To be applicable, transfer courses must be equivalent in both content and level of offering.

The first round of admission to the upper-division takes place after the spring semester of the second year. The second round, if needed, takes place after the summer semester.

**Bachelor of Science in Planning,  
Major in Urban Planning  
Professional Program Requirements**

**Third Year****Fall**

PUP 301 Introduction to Urban Planning <i>L</i> .....	3
or Elective (if PUP 301 already taken)	
PUP 361 Introductory Urban Planning Studio.....	4
PUP 424 Planning Methods .....	4
Approved statistics or quantitative reasoning <i>CS</i> .....	3
Minimum total .....	14

**Spring**

PUP 363 History of Planning .....	3
PUP 420 Theory of Urban Design <i>HU</i> .....	3
PUP 436 City Structure and Planning.....	3
Approved program electives* .....	6
Total .....	15

**Summer**

PUP 484 Internship .....	3
or PUP 484 Study Abroad (3)	
or PUP 485 International Field Studies in Planning <i>G</i> (3)	
or approved program elective* (3)	
Total .....	3

**Fourth Year****Fall**

PUP 432 Planning and Development Control Law.....	3
PUP 433 Zoning Ordinances, Subdivision Regulations, and Building Codes.....	3
PUP 442 Environmental Planning.....	3
PUP 452 Ethics and Theory in Planning <i>L</i> .....	3
Approved program elective*.....	3
Total .....	15

**Spring**

PUP 434 Urban Land Economics .....	3
PUP 462 Advanced Urban Planning Studio.....	4
PUP 510 Citizen Participation .....	3
Approved program elective*.....	3
Total .....	13
Professional program total .....	60
BSP minimum total.....	120

\* Approved program elective: Select a minimum of four classes (12 semester hours) from the approved SOP list.

**Housing and Urban Development**

The Bachelor of Science in Design degree in Housing and Urban Development requires a total of 120 semester hours.

Preprofessional program courses .....	60
Professional program courses core .....	60
Total .....	120

**General Studies Requirements.** The following curriculum includes sufficient approved course work to fulfill the General Studies requirement. See "General Studies," page 92, for requirements and a list of approved courses.

**Graduation Requirements.** In addition to fulfilling college and major requirements, students must meet all university graduation and college degree requirements. See "University Graduation Requirements," page 88, and "College Degree Requirements," page 136.

**Bachelor of Science in Design,  
Major in Housing and Urban Development  
Preprofessional Program Requirements<sup>1</sup>**

**First Year****Fall**

ENG 101 First-Year Composition.....	3
or ENG 105 Advanced First-Year Composition (3)	
HUD 161 Graphic Communication.....	3
Elective .....	3
MA elective.....	3
SB elective .....	3
Total .....	15

**Spring**

ENG 102 First-Year Composition.....	3
HUD 201 Introduction to Housing and Urban Development.....	3
HU, H elective .....	3

<sup>1</sup> *L* literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

SB elective .....	3
SQ elective .....	4
Total .....	16

### Second Year

<b>Fall</b>	
APH 200 Introduction to Architecture <i>HU, G</i> .....	3
or any CAED history course (3) <sup>2</sup>	
CON 252 Building Construction Methods, Materials, and Equipment .....	3
Elective .....	4
C elective .....	3
CS statistics elective .....	3
Total .....	16

<b>Spring</b>	
ACC 230 Uses of Accounting Information I .....	3
L elective .....	3
SQ or SG elective .....	4
Upper-division HU elective .....	3
Total .....	13
Preprofessional program total .....	60

<sup>1</sup> Transfer credits are reviewed by the college and evaluated as admissible to this curriculum. To be admissible, transfer courses must be equivalent in both content and level of offering.

<sup>2</sup> See "CAED History Courses," on this page. If the selected course does not also satisfy the G requirement, the student must select a course that does satisfy the G requirement either as an elective, or in conjunction with another General Studies course.

**CAED History Courses.** These CAED history courses also fulfill HU. See the course listings for prerequisites.

APH 300 World Architecture I/Western Cultures <i>HU, G</i> .....	3
APH 305 Contemporary Architecture <i>HU, H</i> .....	3
APH 313 History of Architecture I <i>L/HU, G, H</i> .....	3
APH 446 20th-Century Architecture I <i>HU</i> .....	3
DSC 101 Design Awareness <i>HU, G</i> .....	3
GRA 111 Graphic Design History I <i>HU</i> .....	3
GRA 112 Graphic Design History II .....	3
IND 316 20th-Century Design I <i>HU, H</i> .....	3
IND 317 20th-Century Design II <i>HU, H</i> .....	3
INT 111 Interior Design Issues and Theories <i>HU</i> .....	3
INT 310 History of Interior Design I <i>HU, H</i> .....	3
INT 311 History of Interior Design II <i>HU, H</i> .....	3
INT 412 History of Decorative Arts in Interiors <i>HU</i> .....	3
PUP 200 The Planned Environment <i>HU, H</i> .....	3
PUP 420 Theory of Urban Design <i>HU</i> .....	3

### Bachelor of Science in Design, Major in Housing and Urban Development Professional Program Requirements

#### Third Year

<b>Fall</b>	
CON 383 Construction Estimating .....	4
HUD 301 Housing and Community Design and Development .....	3
HUD 361 Housing and Urban Development Studio I: Residential Design and Development .....	2
HUD 363 Housing and Urban Development Seminar I: Residential Design and Development .....	3
REA elective course .....	3
Total .....	15

#### Spring

CON 389 Construction Cost Accounting and Control <i>CS</i> .....	3
HUD 302 Housing Production Process .....	3
HUD 362 Housing and Urban Development Studio II: Community Design and Development .....	2
HUD 364 Housing and Urban Development Seminar II: Community Design and Development .....	3
HUD 403 Advanced Topics in Housing and Urban Development .....	3
Elective .....	3
Total .....	17

#### Fourth Year

##### Fall

CON 495 Construction Planning and Scheduling <i>CS</i> .....	3
HUD 401 Assisted Housing .....	3
HUD 461 Housing and Urban Development Studio III: Comprehensive Housing Development Process .....	2
HUD 463 Housing and Urban Development Seminar III: Comprehensive Housing Development Process .....	3
PUP 452 Ethics and Theory in Planning <i>L</i> .....	3
Total .....	14

##### Spring

HUD 402 Community Revitalization: Problems and Strategies ....	3
HUD 462 Housing and Urban Development Studio IV: Neighborhood Revitalization Process .....	2
HUD 464 Housing and Urban Development Seminar IV: Neighborhood Revitalization Process .....	3
PUP 433 Zoning Ordinances, Subdivision Regulations, and Building Codes .....	3
or PUP 432 Planning and Development Control Law (3) .....	3
Elective .....	3
Total .....	14
Professional program total .....	60
BSD-HUD minimum total .....	120

## INQUIRIES

For more information, contact a college academic advisor at 480/965-3584, send e-mail to [caed.advising@asu.edu](mailto:caed.advising@asu.edu), or write

ACADEMIC ADVISING/STUDENT SERVICES  
OFFICE  
COLLEGE OF ARCHITECTURE AND  
ENVIRONMENTAL DESIGN  
ARIZONA STATE UNIVERSITY  
PO BOX 871905  
TEMPE AZ 85287-1905

### HOUSING AND URBAN DEVELOPMENT (HUD)

#### HUD 161 Graphic Communication. (3)

*fall or spring*

Develops drawing skills and understanding of the graphic communication systems used by planning, homebuilding, and landscape architecture professions. Studio. Cross-listed as PLA 161/ PUP 161. Credit is allowed for only HUD 161 or PLA 161 or PUP 161.

#### HUD 201 Introduction to Housing and Urban Development. (3)

*spring*

Perspectives and issues concerning HUD. Guest lectures by interdisciplinary faculty and private, public, and nonprofit practitioners.

**HUD 301 Housing and Community Design and Development. (3)**  
*fall*

Single- and multifamily housing, residential neighborhoods, and planned communities. Affordability in owner-occupied and rental housing. First-time, move-up, and adult markets.

**HUD 302 Housing Production Process. (3)**  
*spring*

Development feasibility analysis, finance, contracts, land acquisition, community and permit presentation and negotiation, scheduling, cost control, marketing, and sales.

**HUD 361 Housing and Urban Development Studio I: Residential Design and Development. (2)**  
*fall*

Affordable residential design, development, and production process. Studio. Pre- or corequisites: HUD 301, 363; upper-division HUD major.

**HUD 362 Housing and Urban Development Studio II: Community Design and Development. (2)**  
*spring*

Neighborhood and new community design and development process. Studio. Pre- or corequisites: HUD 301, 361, 363, 364; upper-division HUD major.

**HUD 363 Housing and Urban Development Seminar I: Residential Design and Development. (3)**  
*fall*

Affordable residential design, development, and production process. Seminar. Pre- or corequisites: HUD 301, 361; upper-division HUD major.

**HUD 364 Housing and Urban Development Seminar II: Community Design and Development. (3)**  
*spring*

Neighborhood and new community design and development process. Seminar. Pre- or corequisites: HUD 301, 361, 362, 363; upper-division HUD major.

**HUD 401 Assisted Housing. (3)**  
*fall*

Publicly subsidized and nonprofit housing. Policy, implementation, and administration. FHA, Section 8, FmHA, projects and scatter site, and tax considerations.

**HUD 402 Community Revitalization: Problems and Strategies. (3)**  
*spring*

Public policy and strategies for neighborhood revitalization and community renewal. Preservation and adaptive reuse, gentrification, neighborhood safety, and related socioeconomic concerns.

**HUD 403 Advanced Topics in Housing and Urban Development. (3)**  
*fall and spring*

Varying topics, such as manufactured housing, homelessness, mortgage and finance in housing, housing abroad, marketing housing, and sustainable community development.

**HUD 461 Housing and Urban Development Studio III: Comprehensive Housing Development Process. (2)**  
*fall*

Comprehensive development process simulation. Feasibility analysis, finance, design, community and permit presentation, construction, cost management, and marketing. Studio. Pre- or corequisites: HUD 302, 463; upper-division HUD major.

**HUD 462 Housing and Urban Development Studio IV: Neighborhood Revitalization Process. (2)**  
*spring*

Housing rehabilitation, neighborhood revitalization, and urban infill. CDBG, empowerment-enterprise zoning, code enforcement, citizen participation, etc. Studio. Pre- or corequisites: HUD 401, 402, 464; upper-division HUD major.

**HUD 463 Housing and Urban Development Seminar III: Comprehensive Housing Development Process. (3)**  
*fall*

Comprehensive development process simulation. Feasibility analysis, finance, design, community and permit presentation, construction and cost management, and marketing. Seminar. Pre- or corequisites: HUD 302, 461; upper-division HUD major.

**HUD 464 Housing and Urban Development Seminar IV: Neighborhood Revitalization Process. (3)**  
*spring*

Housing rehabilitation, neighborhood revitalization, and urban infill. CDBG, empowerment-enterprise zoning, code enforcement, citizen participation, etc. Seminar. Pre- or corequisites: HUD 401, 402, 462; upper-division HUD major.

**HUD 484 Internship. (1)**  
*summer*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**URBAN AND ENVIRONMENTAL PLANNING (PUP)****PUP 100 Introduction to Environmental Design. (3)**  
*fall and spring*

Survey of environmental design: includes historic examples and the theoretical, social, technical, and environmental forces that shape them. Cross-listed as APH 100. Credit is allowed for only APH 100 or PUP 100.

*General Studies:* HU, G, H

**PUP 161 Graphic Communication. (3)**  
*fall or spring*

Develops drawing skills and understanding of the graphic communication systems used by planning, home building, and landscape architecture professions. Studio. Cross-listed as HUD 161/PLA 161. Credit is allowed for only HUD 161 or PLA 161 or PUP 161.

**PUP 199 Sustainable Cities. (3)**  
*fall*

Introduces technological, social, and cultural principles and innovations for cities under the notion of sustainability and sustainable development within the global, regional, and local contexts. Lecture, online.

*General Studies:* HU/SB, G

**PUP 200 The Planned Environment. (3)**  
*fall*

Environmental, aesthetic, social, economic, political, and other factors influencing urban development.

*General Studies:* HU, H

**PUP 236 Introduction to Computer Modeling. (3)**  
*fall and spring*

Fundamentals of computer operation, geographic information systems, geometric modeling of 3-D forms and rendering of light, mathematical modeling of processes using spreadsheets. Lab. Prerequisite: major in the College of Architecture and Environmental Design.

*General Studies:* CS

**PUP 261 Urban Planning I. (4)**  
*fall*

Planning communication: communication techniques for urban planning and landscape architecture communication. Credit is allowed only for PUP 261 or PLA 261. Prerequisite: PUP 161 (or its equivalent).

**PUP 262 Urban Planning II. (4)**  
*spring*

Reading the landscape: observing, experiencing, and graphically expressing the symbolic and aesthetic significance of natural landscapes. Studio. Prerequisite: PUP 261.

**PUP 301 Introduction to Urban Planning. (3)**  
*fall, spring, summer*

Theoretical and practical aspects of city planning. Interrelationships among physical planning, environment, government, and society.

*General Studies:* L

**PUP 322 Computers in Planning. (3)**  
*fall*

Planning methods using Geographic Information Systems, database, spreadsheet, image manipulation, and desktop publishing computer software packages. Lecture, lab.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

### **PUP 361 Introductory Urban Planning Studio. (4)**

*fall*

Basic site planning and design techniques. Collection and analysis of information and basic planning research. Report writing and public presentation skills. Studio. Fee. Prerequisite: upper-division BSP majors.

### **PUP 362 Urban Planning III. (4)**

*spring*

Neighborhood planning: local community plan making; urban development and neighborhood improvement. Studio. Fee. Prerequisite: PUP 361 or instructor approval.

### **PUP 363 History of Planning. (3)**

*spring*

Historical overview of western urban and regional planning and planning theory, focusing on the 19th and 20th centuries. Prerequisite: College of Architecture and Environmental Design junior standing.

### **PUP 412 History of the City. (3)**

*fall*

The city from its ancient origins to the present day. Emphasizes European and American cities during the last five centuries. Cross-listed as APH 414. Credit is allowed for only APH 414 or PUP 412. Prerequisite: College of Architecture and Environmental Design junior standing.

*General Studies: H*

### **PUP 420 Theory of Urban Design. (3)**

*spring*

Analyzes the visual and cultural aspects of urban design. Theories and techniques applied to selected study models. Prerequisite: junior standing.

*General Studies: HU*

### **PUP 424 Planning Methods. (4)**

*fall*

Methods for urban planning research. Emphasizes research design, quantitative and qualitative methods, survey research, and data analysis. Studio. Pre- or corequisites: PUP 301; junior standing.

### **PUP 425 Urban Housing Analysis. (3)**

*fall*

Methods for urban planning research. Emphasizes research design, quantitative and qualitative methods, survey research, and data analysis. Prerequisite: junior standing. Pre- or corequisite: PUP 301.

### **PUP 430 Transportation Planning and the Environment. (3)**

*spring*

Overview of transportation planning from the perspective of land use planning, economic development, environmental planning, and social needs. Lecture, discussion. Prerequisite: junior standing or instructor approval.

### **PUP 432 Planning and Development Control Law. (3)**

*fall*

Case studies on police power, eminent domain, zoning, subdivision controls, exclusion, preservation, urban redevelopment, and aesthetic and design regulation. Prerequisite: admission to upper division or Construction major or instructor approval.

### **PUP 433 Zoning Ordinances, Subdivision Regulations, and Building Codes. (3)**

*fall and spring*

Analyzes zoning ordinances, subdivision regulations, building codes, and other planning implementation techniques relative to local development. Prerequisite: upper-division BSP, HUD, or Environmental Planning major.

### **PUP 434 Urban Land Economics. (3)**

*spring*

Interaction between space and economic behavior. Examines the use and value of land through economic theories. Prerequisite: admission to upper division or instructor approval.

### **PUP 436 City Structure and Planning. (3)**

*spring*

Political structure and organization of government as it relates to planning. Prerequisites: PUP 301; junior standing.

### **PUP 442 Environmental Planning. (3)**

*fall*

Environmental planning problems, including floodplains, water quality and quantity, solid and hazardous waste, air quality, landslides, and noise. Field trips. Prerequisites: PUP 301; junior standing.

### **PUP 444 Preservation Planning. (3)**

*spring*

History, theory, and principles of historic preservation. Emphasizes legal framework and methods practiced. Prerequisite: junior standing.

### **PUP 445 Women and Environments. (3)**

*fall*

Examines the role women play in shaping the built environment; ways built/natural forms affect women's lives. Focuses on contemporary U.S. examples. Prerequisite: junior standing.

*General Studies: C*

### **PUP 452 Ethics and Theory in Planning. (3)**

*fall*

Ethics and theory of professional planning practice in urban and regional communities. Prerequisite: admission to upper division or instructor approval.

*General Studies: L*

### **PUP 461 Urban Planning IV. (4)**

*fall*

Comprehensive planning: collection and analysis of economic, social, and environmental data relevant to urban planning; development of land-use plans. Studio. Fee. Prerequisite: PLA 362 or PUP 362 or instructor approval.

### **PUP 462 Advanced Urban Planning Studio. (4)**

*spring*

Comprehensive planning. Synthesis of complex data- and community-based analyses. Advanced report writing and public presentation skills. Studio. Fee. Prerequisite: upper-division BSP. Prerequisite with a grade of "C" or higher: PUP 361.

### **PUP 475 Environmental Impact Assessment. (3)**

*spring*

Criteria and methods for compliance with environmental laws; development of skills and techniques needed to prepare environmental impact statements/assessments.

### **PUP 484 Internship. (1-12)**

*fall, spring, summer session 1*

Full-time internship under the supervision of practitioners in the Phoenix area or other locale. Credit/no credit. Topics may include the following:

- Study Abroad. (3)

Prerequisite: school major or instructor approval.

### **PUP 485 International Field Studies in Planning. (1-12)**

*summer*

Organized field study of planning in specified international locations. May be repeated for credit with school approval. Study abroad, field trip. Cross-listed as PLA 485. Credit is allowed for only PLA 485 or PUP 485.

*General Studies: G (3 hours must be taken to secure G credit.)*

### **PUP 494 Special Topics. (1-4)**

*fall and spring*

Topics may include the following:

- Environmental Planning Economics. (3)

Prerequisite: junior standing.

### **PUP 498 Pro-Seminar. (1-7)**

*fall*

Topics may include the following:

- Senior Pro-Seminar. (1)

### **PUP 501 The Idea of Planning. (3)**

*fall*

Comprehensive review of planning profession within a political, governmental, multicultural, and gender framework.

### **PUP 510 Citizen Participation. (3)**

*spring*

Theory and practice of citizen participation in planning. Examines and critiques participation techniques and roles of planners. Prerequisite: upper-division BSP, HUD, or Master of Urban and Environmental Design major.

### **PUP 520 Planning Theories and Processes. (3)**

*fall*

Reviews past and current theoretical developments related to social change perspectives, the role and ethics of planners. Prerequisite: instructor approval.

**PUP 524 Planning Methods I. (3)***fall*

Methods for urban planning research. Emphasizes research design, demographic analysis, forecasting, and survey research. Pre- or corequisite: PUP 501.

**PUP 525 Urban Housing Analysis. (3)***fall*

Nature, dimensions, and problems of urban housing, government policy environment, and underlying economics of the housing market.

**PUP 531 Planning and Development Control Law. (3)***spring*

Case studies on police power, eminent domain, zoning, subdivision controls, exclusion, preservation, urban redevelopment, and aesthetic and design regulation.

**PUP 532 Advanced Urban Planning Law. (3)***spring*

Advanced study on selected issues in planning law, such as urban design controls, exclusionary practices, compensable regulation, and tax policy. Prerequisite: PUP 432 or instructor approval.

**PUP 542 Environmental Administration and Planning. (3)***spring*

Environmental administration of policies and their relationship to environmental planning practices. Prerequisite: PUP 442.

**PUP 544 Urban Land Use Planning. (3)***spring*

Theory and methods of urban land use planning, including the rational planning process, comprehensive, functional, and neighborhood plans. Pre- or corequisite: PUP 501 or instructor approval.

**PUP 546 Urban Design Policy. (3)***selected semesters*

Advanced study of local, state, and federal urban design policy. Prerequisite: PLA 420 or PUP 420.

**PUP 561 Urban Design Studio. (4)***selected semesters*

Current urban form and urban landscape design problems within the Phoenix-centered region. Studio.

**PUP 572 Planning Studio I: Data Inventory and Analysis. (4)***fall*

Comprehensive planning workshop dealing with real community problems. Focuses on the data gathering and analysis steps of the planning process. Fee. Prerequisite: Master of Environmental Planning major or instructor approval.

**PUP 574 Planning Studio II: Options and Implementation. (4)***spring*

Comprehensive planning workshop dealing with real community problems. Focuses on the development of options, plan making, and plan implementation. Studio. Fee. Prerequisite: PUP 572 or instructor approval.

**PUP 575 Environmental Impact Assessment. (3)***spring*

Criteria and methods for compliance with environmental laws; develops skills and techniques needed to prepare environmental impact statements/assessments.

**PUP 576 GIS Studio. (3)***spring*

GIS as a tool to address large, multifaceted planning problems. Prerequisites: a combination of GPH 373 (or 598) and PAF 591 and PUP 322 or only instructor approval.

**PUP 580 Practicum. (1–12)***fall, spring, summer*

Topics may include the following:

- Capstone Studio/Workshop. (5)  
Comprehensive planning workshop dealing with real community problems. Focuses on integrative real-world planning applications culminating in a professional report.

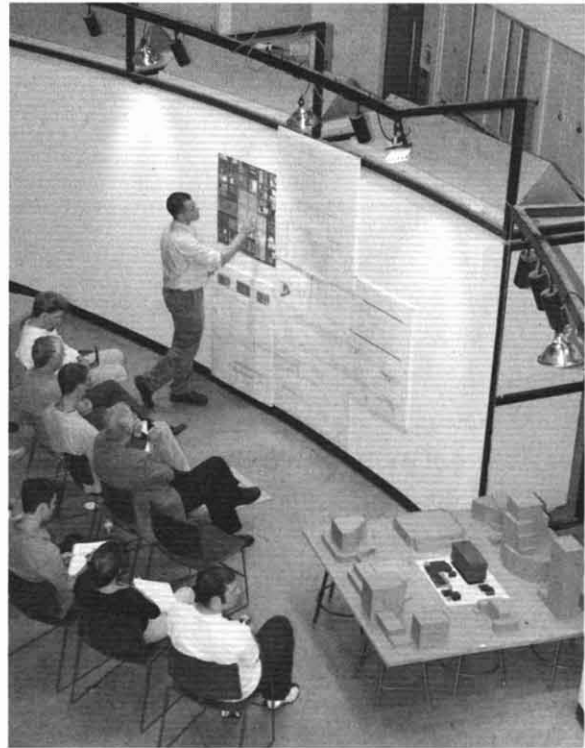
**PUP 584 Internship. (3)***fall, spring, summer session 1*

Internship under the supervision of practitioners in the Phoenix area or other locales. Credit/no credit.

**PUP 591 Seminar. (1–12)***fall and spring*

Topics may include the following:

- Transportation Systems Pro-Seminar



The College of Architecture and Environmental Design offers seven undergraduate degree programs.

John Buchholz photo

**PUP 593 Applied Project. (1–12)***fall, spring, summer*

Topics may include the following:

- Professional Project. (5)  
Applies advanced planning techniques and methodology to a specific, real-world planning issue, with a specified client.

**PUP 598 Special Topics. (1–4)***selected semesters*

Topics may include the following:

- Transportation Planning and the Environment

**PUP 599 Thesis. (5)***fall, spring, summer*

Creative, scholarly work developed from independent inquiry involving a substantial body of original research. Fee.

**PUP 622 Planning Methods II: Quantitative Planning Analysis. (3)***spring*

Methods and models used as the basic quantitative techniques of urban, regional, and environmental planning and policy analysis. Prerequisites: PUP 524; a course in statistics; instructor approval.

**PUP 642 Land Economics. (3)***fall*

Land use and locational impact of economic activity and the urban real property market. Prerequisite: instructor approval.

**PUP 644 Public Sector Planning. (3)***spring*

Urban fiscal problems and public goods provision in state and local governments. Prerequisites: a course in microeconomics; instructor approval.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.



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# W. P. Carey School of Business

wpcarey.asu.edu

Robert E. Mittelstaedt Jr., MBA, Dean

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School of Accountancy .....	175
Business Administration .....	176
Department of Economics .....	177
Department of Finance .....	180
School of Health Management and Policy .....	181
Department of Information Systems .....	181
International Business Studies .....	183
Department of Management .....	185
Department of Marketing .....	188
Department of Supply Chain Management .....	189

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## PURPOSE

The mission of the W. P. Carey School of Business reflects a commitment to expand knowledge and educate future business leaders in a world-class learning environment that values thought leadership, real-world applications, technology, global perspective, ethics, and community. These programs address issues of importance to future managers in a world characterized by demands for continuous improvements in quality; growing sophistication of information technology; globalized markets; racial, cultural, and gender diversity in the workforce; and a demand for managers with practical, realistic skills.

Students have many opportunities to supplement their academic experiences. The school offers an honors program for academically talented students, an international component to provide a variety of international opportunities, an internship program that provides related practical experience, and more than 25 cocurricular organizations to increase student interaction and learning.

The school is a member of AACSB International—The Association to Advance Collegiate Schools of Business, the official accrediting organization in the field of business. The undergraduate and graduate programs and the School of Accountancy are also accredited by this organization.

The school is host to a chapter of Beta Gamma Sigma, a national society that recognizes high academic achievement in AACSB International-accredited schools. Selection to Beta Gamma Sigma is the highest scholastic honor a student in business can earn. Students in the top seven percent of the junior class and the top ten percent of the senior class are invited for membership every spring. For more information about Beta Gamma Sigma, access the Web site at [betagammasigma.org](http://betagammasigma.org), or stop by BA 150.

In addition to the regular degree curricula, other programs of study in the school are designed to meet special needs. Selected majors are available in the evening, and continuing education courses are conducted for qualified persons who are regularly employed and who otherwise would be unable to enroll in college courses. Short courses and institutes on a noncredit basis are organized in cooperation with various business groups for the furtherance of in-service training of employed personnel.

The school works in partnership with the business community, and the board of the Dean's Council of 100 serves as a primary source of advice and counsel for the school. Through the various divisions of the L. William Seidman Research Institute, the school reaches out to the business community through research and executive education. For more information, access the school's Web site at [wpcarey.asu.edu](http://wpcarey.asu.edu).

## ORGANIZATION

The courses offered by the W. P. Carey School of Business are organized into groups so that a related sequence may be established for the various subject fields. For administrative purposes, these fields are organized into the following academic units:

- School of Accountancy
- Business Administration (East College)
- Department of Economics
- Department of Finance
- School of Health Management and Policy
- Department of Information Systems
- Department of Management
- Department of Marketing
- Department of Supply Chain Management

## ADMISSION

**The Prebusiness Program.** Each student admitted to the W. P. Carey School of Business is designated as a prebusiness student. The student follows the freshman and sophomore sequence of courses listed in the curriculum outline. Students should follow the recommendations of an academic advisor in completing the prescribed background and skill courses in preparation for the subsequent professional program. The skill courses follow.

ACC	230	Uses of Accounting Information I .....	3
ACC	240	Uses of Accounting Information II .....	3
CIS	200	Computer Applications and Information Technology CS .....	3
ECN	111	Macroeconomic Principles SB .....	3
ECN	112	Macroeconomic Principles SB .....	3
Choose between the course combinations below .....			6 or 3
ENG	101	First-Year Composition (3)	

ENG 102 First-Year Composition (3)	
— or —	
ENG 105 Advanced First-Year Composition (3)	
— or —	
ENG 107 English for Foreign Students (3)	
ENG 108 English for Foreign Students (3)	
MAT 210 Brief Calculus <i>MA</i> .....	3
MAT 211 Mathematics for Business Analysis .....	3
QBA 221 Statistical Analysis <i>CS</i> .....	3
Total .....	27 or 30

Accountancy and Computer Information Systems majors should refer to their specific requirements under the "School of Accountancy," page 175, and the "Department of Information Systems," page 181, which list variations in the skill courses.

Completion of lower-division requirements does not ensure acceptance to the upper-division professional program. Prebusiness students are not allowed to register for 300- and 400-level business courses.

**The Professional Program.** The junior and senior years constitute the professional program of the undergraduate curriculum. Admission to the professional program is competitive and limited by available resources. Admission is awarded to those applicants demonstrating the highest promise for professional success.

Students who wish to apply to the W. P. Carey School of Business professional program must submit an application during one of the three annual application periods. Candidates are strongly encouraged to visit Undergraduate Programs, in BA 109, at the beginning of the semester in which they wish to apply to pick up information regarding academic qualifications, admissions criteria, and application deadlines. The application can be found on the Web at [wpcarey.asu.edu/up/up\\_professional\\_program.cfm](http://wpcarey.asu.edu/up/up_professional_program.cfm). All applicants must be admitted to ASU by the time they submit their professional program application and must provide official SAT or ACT scores. Students are also required to complete the Business Basics online workshop before applying to the professional program.

**Nonbusiness Students.** A nonbusiness student is permitted to register for selected 300- and 400-level business courses only during online registration and only if, (1) at the time of registration, the student has junior standing (56 semester hours completed) and (2) the student has a minimum cumulative GPA of 2.50 at ASU and a minimum GPA of 2.50 for all business courses completed at ASU. Students who have 56 semester hours completed but have never attended ASU are given a one-semester period to register and to establish a GPA at ASU. Students must meet all prerequisites and course requirements as listed in the catalog. Economics courses have different prerequisites; see the individual economics courses for those requirements (see page 178).

Nonbusiness majors are limited to a maximum of 15 semester hours of selected upper-division business courses (excluding ECN courses).

**Bachelor of Interdisciplinary Studies.** The W. P. Carey School of Business participates in the Bachelor of Interdisciplinary Studies (BIS) degree. For details about the BIS

degree, refer to "School of Interdisciplinary Studies," page 124.

**Minors.** Two minors are available to nonbusiness students: a minor in Business and a minor in Small Business. The Small Business minor is offered only at the East campus. To complete the Business minor, students must obtain the requirements from Undergraduate Programs in the W. P. Carey School of Business and complete the specified business courses with a grade of "C" (2.00) or higher. To complete the Small Business minor, students must obtain the requirements from the East campus Business Administration program on SUTTON, third floor. Courses used in a student's major may not be used toward a minor. Students are advised to consult an advisor in the colleges of their majors to ensure the proper selection of courses for the minor. The upper-division courses for the minor are restricted to students with 56 hours who are in good standing (a 2.00 ASU GPA or better).

**Nondegree Undergraduate and Graduate Students.** A nondegree undergraduate or graduate student is permitted to enroll in selected 300- and 400-level business courses only during online registration and only if (1) the student has an ASU cumulative GPA of at least 2.50 and an ASU cumulative business GPA of at least 2.50 at the time of online registration or (2) the student has never attended ASU, in which case he or she is given a one-semester period to register during online registration and to establish a GPA at ASU. Students must meet all prerequisites and course requirements as listed in the catalog. Economics courses have different prerequisites; see the individual economics courses for those requirements (see page 178).

Nondegree undergraduate and graduate students are limited to a maximum of 15 semester hours of selected upper-division business courses (excluding ECN courses).

## SECONDARY EDUCATION—BAE

The College of Education offers a Bachelor of Arts in Education degree in Secondary Education with an academic specialization in business.

### Academic Specialization ITC Admission Requirements

This degree is offered through the Initial Teacher Certification (ITC) program in the College of Education. See "Initial Teacher Certification Professional Program Admission," page 194, for information on admission eligibility requirements, admission deadlines, field experiences, and student teaching. For more information or to schedule an appointment with an advisor, call the Office of Student Services in the College of Education at 480/965-5555.

The following courses must be completed with a grade of "C" (2.00) or higher before applying to the ITC professional program:

ECN 111 Macroeconomics Principles <i>SB</i> .....	3
ECN 112 Microeconomic Principles <i>SB</i> .....	3

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

In addition, the following courses may be in progress when applying to the ITC but must be completed before starting the program:

ACC 230 Uses of Accounting Information I .....	3
CIS 200 Computer Applications and Information Technology CS .....	3

**Business.** The major teaching field consists of 45 semester hours and six additional hours in teaching methods. A minimum grade of "C" (2.00) is required in all academic specialization courses. Required major courses are as follows:

ACC 230 Uses of Accounting Information I .....	3
ACC 240 Uses of Accounting Information II .....	3
CIS 200 Computer Applications and Information Technology CS .....	3
ECN 111 Macroeconomic Principles <i>SB</i> .....	3
ECN 112 Microeconomic Principles <i>SB</i> .....	3
ENG 301 Writing for the Professions <i>L</i> .....	3
FIN 300 Fundamentals of Finance .....	3
or FIN 380 Personal Financial Management (3) .....	
LES 305 Legal, Ethical, and Regulatory Issues in Business .....	3
MAT 211 Mathematics for Business Analysis .....	3
MGT 300 Organizational Management and Leadership .....	3
MGT 440 Small Business and Entrepreneurship .....	3
MKT 300 Principles of Marketing .....	3
MKT 310 Principles of Selling .....	3
or MKT 424 Retail Management (3) .....	
QBA 221 Statistical Analysis <i>CS</i> .....	3
SCM 300 Global Supply Operations .....	3
Typing/keyboarding .....	1
<b>Total</b> .....	<b>46</b>

### Teaching Methods

BUE 480 Teaching Business Subjects .....	3
BUE 481 Technology in Business and Vocational Education .....	3
<b>Total</b> .....	<b>6</b>

## ADVISING

The student should follow the sequence of courses in the "Curriculum Outline Prebusiness Program," on this page, and the recommendations of the academic advisor in completing the prescribed background and skill courses in preparation for the subsequent professional program.

For more advising information, access the Undergraduate Programs Web site at [wpcarey.asu.edu/up](http://wpcarey.asu.edu/up).

### Curriculum Outline Prebusiness Program

#### First Year

##### First Semester

ECN 111 Macroeconomic Principles <i>SB</i> .....	3
or ECN 112 Microeconomic Principles <i>SB</i> (3) .....	
ENG 101 First-Year Composition .....	3
or ENG 107 English for Foreign Students (3) .....	
MAT 210 Brief Calculus <i>MA</i> .....	3
General Studies .....	3
PGS or SOC course .....	3
<b>Total</b> .....	<b>15</b>

##### Second Semester

COM 100 Introduction to Human Communication <i>SB</i> .....	3
or COM 225 Public Speaking <i>L</i> (3) .....	
or COM 230 Small Group Communication <i>SB</i> (3) .....	

or COM 259 Communication in Business and the Professions (3)

ECN 112 Microeconomic Principles <i>SB</i> .....	3
or ECN 111 Macroeconomic Principles <i>SB</i> (3) .....	
ENG 102 First-Year Composition .....	3
or ENG 108 English for Foreign Students (3) .....	
MAT 211 Mathematics for Business Analysis .....	3
Laboratory science <i>SQ</i> .....	4
<b>Total</b> .....	<b>16</b>

#### Second Year

##### Third Semester

ACC 230 Uses of Accounting Information I .....	3
QBA 221 Statistical Analysis <i>CS</i> .....	3
General Studies .....	3
Laboratory science <i>SQ/SG</i> .....	4
PGS or SOC course .....	3
<b>Total</b> .....	<b>16</b>

##### Fourth Semester

ACC 240 Uses of Accounting Information II .....	3
CIS 200 Computer Applications and Information Technology <i>CS</i> .....	3
General Studies .....	9
<b>Total</b> .....	<b>15</b>
Prebusiness program total .....	<b>62</b>

Accountancy and Computer Information Systems majors should refer to their specific course requirements under the "School of Accountancy," page 175, and the "Department of Information Systems," page 181, which list course requirement variations. Management majors should refer to their specific course requirements under the "Department of Management," page 185.

Students are encouraged to have College Algebra (MAT 117) proficiency before registering in ECN 111 and 112. ECN 111 and 112 may be taken during the second and third semesters without any delay in the prebusiness program.

**Professional Program.** Students admitted to the professional program should select the necessary upper-division business courses to complete the major by consulting their departmental advising guide, with an academic advisor, or with a faculty advisor. Professional program students must complete COB 301, ENG 301, and SCM 300 during their first semester in the professional program.

**Transfer Credit.** Credit from other institutions is accepted subject to the following guidelines. Students planning to take their first two years of work at a community college or another four-year college should take only those courses in business and economics that are offered as freshman- or sophomore-level courses at any of the state-supported Arizona universities. These lower-division courses are numbered 100 through 299. *A maximum of 30 hours of business and economics courses from community colleges are accepted toward a bachelor's degree in business.*

Students may transfer a maximum of nine semester hours of approved upper-division business course work required for the business degree to the Tempe campus. Professional business courses taught in the junior or senior year in the state universities may not be completed at a two-year college for transfer credit in the business core or major. The

## W. P. Carey School of Business Baccalaureate Degrees and Majors

Major	Degree	Concentration	Administered By
Accountancy	BS	—	School of Accountancy
Business Administration	BS	—	East College
Computer Information Systems	BS	—	Department of Information Systems
Economics*	BS	—	Department of Economics
Finance	BS	—	Department of Finance
Management	BS	—	Department of Management
Marketing	BS	—	Department of Marketing
Supply Chain Management	BS	—	Department of Supply Chain Management

\* This major is offered by the College of Liberal Arts and Sciences as well, with different requirements

introductory course in the legal, ethical, and regulatory issues in business is accepted as an exception to this policy, but only lower-division credit is granted. Such courses may be utilized in the free elective category subject to the 30-hour limitation. Courses taught as vocational or career classes at the community colleges that are not taught in the schools of business at any one of the state universities are not accepted for credit toward a bachelor's degree. Courses taught in the upper-division business core at the state universities must be completed at the degree-granting institution unless transferred from an accredited four-year school. Normally, upper-division transfer credits are accepted only from AACSB International-accredited schools. To be accepted for credit as part of the professional program in business, all courses transferred from other institutions must carry prerequisites similar to those of the courses they are replacing at ASU.

An Associate in Transfer Partnership degree is available to Maricopa community college students who wish to complete their first two years of course work at a Maricopa community college and transfer to the W. P. Carey School of Business without loss of credit. An Associate of Business degree is available to students who wish to complete their first two years of course work at an Arizona community college and transfer to the W. P. Carey School of Business without loss of credit. Students should consult with an academic advisor in Undergraduate Programs to plan curriculum requirements and/or access Business Transfer Guides for optimal course selection at [www.asu.edu/provost/articulation](http://www.asu.edu/provost/articulation).

## DEGREES

The faculty in the W. P. Carey School of Business offer the BS degree in Accountancy, Business Administration (East campus), Computer Information Systems, Economics, Finance, Management, Marketing, and Supply Chain Management upon successful completion of a four-year curriculum of 120 semester hours. Students may select one of the majors shown in the "W. P. Carey School of Business Baccalaureate Degrees and Majors" table, on this page. Each major is administered by the academic unit indicated.

## GRADUATE PROGRAMS

The faculty in the W. P. Carey School of Business offer graduate degrees as shown in the "W. P. Carey School of Business Graduate Degrees and Majors" table, page 170. Students have the opportunity to obtain dual degrees in two years with several master's degree programs in the W. P. Carey School of Business, including these examples:

MBA/MAIS  
MBA/MHSM  
MBA/MS degree in Information Management  
MBA/MTax

Other concurrent degrees available are as follows:

MBA/JD  
MBA/MArch  
MBA/MIM with Thunderbird, the Garvin School of International Management, Glendale, AZ; Graduate School of Business Administration (Peru); Graduate School of Commerce (France); Monterrey Institute for Technical and Superior Studies, Mexico State Campus (Mexico); and Carlos III University of Madrid (Spain)

Applicants to the MBA degree program must have significant work experience.

For more information about the W. P. Carey MBA program, see the *Graduate Catalog*.

## COLLEGE OF EXTENDED EDUCATION

The university-wide College of Extended Education provides an interactive link between ASU and the diverse communities it serves. The college assesses lifelong learning requirements and works in partnership with campuses, other colleges, and the community to serve learners, using a network of locations, programs, schedules, and technologies.

For more information, see "College of Extended Education," page 703, or access the Web site at [www.asu.edu/xed](http://www.asu.edu/xed).

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

### W. P. Carey School of Business Graduate Degrees and Majors

Major	Degree	Concentration <sup>1</sup>	Administered By
Accountancy and Information Systems	MAIS	—	School of Accountancy
Business Administration	MBA PhD	— Accountancy, computer information systems, finance, health services research, <sup>2</sup> management, marketing, or supply chain management	W. P. Carey School of Business W. P. Carey School of Business
Economics	MS, PhD	—	Department of Economics
Health Sector Management	MHSM	—	School of Health Management and Policy
Information Management	MS	—	Department of Information Systems
Public Health <sup>2</sup>	MPH	Community health practice or health administration and policy	School of Health Management and Policy
Statistics <sup>3</sup>	MS	—	Committee on Statistics
Taxation	MTax	—	School of Accountancy

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> Applications are not being accepted at this time.

<sup>3</sup> This program is administered by the Division of Graduate Studies.

### UNIVERSITY GRADUATION REQUIREMENTS

In addition to fulfilling school and major requirements, students must meet all university graduation requirements. For more information, see "University Graduation Requirements," page 88.

#### General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement for a minimum of 35 hours of approved course work in General Studies, as described under "General Studies," page 92. Note that all three General Studies awareness areas are required.

General Studies courses are listed in the "General Studies Courses" table, page 94, in the course descriptions, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*.

#### First-Year Composition Requirement

Completion of both ENG 101 and 102 or ENG 105 with a grade of "C" (2.00) or higher is required for graduation from ASU in any baccalaureate program.

### SCHOOL DEGREE REQUIREMENTS

School degree requirements supplement the General Studies requirement with additional course work from the approved university general studies list or the W. P. Carey School of Business Policy Statement. Business courses may not be used to fulfill school degree requirements except for ECN 111 and 112 and QBA 221.

A well-planned program of study may enable students to complete many General Studies and school degree requirements concurrently. Students are encouraged to consult with an academic advisor in planning a program to ensure that they comply with all necessary requirements.

Specific courses from the following areas must be taken to fulfill the school degree requirements.

**Social and Behavioral Sciences.** W. P. Carey School of Business students must complete ECN 111 and 112, one course with the PGS prefix, and one course with the SOC prefix and may include these courses toward the General Studies requirements.

**Mathematical Studies.** W. P. Carey School of Business students must complete MAT 119 and MAT 211 (or a more advanced MAT course) and QBA 221 and may include these courses toward the General Studies requirements.

**Communication.** All students in the W. P. Carey School of Business except Accountancy and Management majors must complete COM 100, 225, 230, or 259 and ENG 301. Accountancy majors must complete COM 230 (or 100) and 259. Management majors must complete COM 225 or 259.

**Additional Courses.** Additional courses, as needed to complete 60 hours (54 hours for Accountancy majors), may be selected from the General Studies areas (see "General Studies," page 92) or from the W. P. Carey School of Business Policy Statement. Students are encouraged to consult with an academic advisor to ensure that they comply with all necessary requirements. Business courses may not be used to fulfill this requirement except for ECN 111 and 112 and QBA 221.

#### Additional Graduation Requirements

In addition to completion of courses outlined under "Major Requirements," page 171, to be eligible for the BS degree in the W. P. Carey School of Business, a student must

1. have completed at least 30 semester hours at the Tempe campus;

2. have attained a cumulative GPA of 2.00 or higher for all courses taken at this university, for all business courses taken at this university, and for all courses for the major taken at this university;
3. have earned a "C" (2.00) or higher in each lower-division core and skill course and each course in the major;
4. have earned a minimum of 51 semester hours in traditional courses that were designed primarily for junior or senior students and were completed in an accredited, four-year institution; and
5. have met all university degree requirements.

**Exceptions.** Any exception to these requirements must be approved by the Standards Committee of the W. P. Carey School of Business.

**Declaration of Graduation.** A student in a professional program must complete a Declaration of Graduation during the semester in which the student completes 87 semester hours. The Degree Audit Reporting System should be used to guide the student in successfully completing degree requirements in a timely manner. Students who have not met this requirement are prevented from further registration. Some students may be required to complete a Program of Study in place of the Declaration of Graduation. Students should consult their advisors for the proper procedure.

### Pass/Fail

Business majors may not include among the credits required for graduation any courses taken at this university on a pass/fail basis. Pass/fail credits taken at another institution may be petitioned for use, but only if the student can demonstrate proof that the pass grade was equivalent to a "C" (2.00) or higher.

## MAJOR REQUIREMENTS

Students seeking a BS degree in the W. P. Carey School of Business must satisfactorily complete a curriculum of 120 semester hours.

A major consists of a pattern of 18 to 24 semester hours in related courses falling primarily within a given subject field. Available majors are shown in the "W. P. Carey School of Business Baccalaureate Degrees and Majors" table, page 169.

**Major Proficiency Requirements.** Students must receive grades of "C" (2.00) or higher in upper-division courses for the major. If a student receives a grade below "C" (2.00) in any course in the major, this course must be repeated. If a second grade below "C" (2.00) is received in either an upper-division course in the major already taken or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in that major. University policy states a course may be repeated only one time.

### Business Core Requirements

The business core is designed to provide an understanding of the fundamentals of business and to develop a broad business background. The faculty designed the core to cover the impact of information technology and e-business prac-

tices on business. By educating and training students in the use of data-driven decision-making tools and applications software, the school provides greater opportunity for its students. All students seeking a BS degree in the W. P. Carey School of Business complete the core courses.

The lower-division business core courses provide the fundamental skills needed in professional program courses and introduce students to the supply chain, business processes, and enterprise solutions software in addition to technology skills such as Excel and Access.

### Lower-Division Business Core

ACC 230 Uses of Accounting Information I .....	3
ACC 240 Uses of Accounting Information II .....	3
CIS 200 Computer Applications and Information Technology CS .....	3
Lower-division business core total .....	9

The upper-division business core provides an enhanced understanding of the digital economy, e-business, and business processes in addition to increasing content knowledge and other skills.

### Upper-Division Business Core

COB 301 Business Forum (first semester) .....	1
FIN 300 Fundamentals of Finance .....	3
LES 305 Legal, Ethical, and Regulatory Issues in Business .....	3
MGT 300 Organizational Management and Leadership .....	3
MKT 300 Principles of Marketing .....	3
SCM 300 Global Supply Operations .....	3
International business course .....	3
Upper-division business core total .....	19
Business core total .....	28

Accountancy, Computer Information Systems, and Management majors should refer to their specific requirements under the "School of Accountancy," page 175, and "Department of Information Systems," page 181, and "Department of Management," page 185, which list variations in the business core courses.

### Elective Courses

Sufficient elective courses are to be selected by the student to complete the total of 120 semester hours required for graduation.

## ACADEMIC STANDARDS

**Probation.** All business students, freshman through senior, must maintain a minimum GPA of 2.00 for all courses completed at ASU. If this standard is not maintained, the student is placed on probation. Students on probation must see an advisor before further registration.

Students on probation must obtain a semester GPA of 2.50 with no grade lower than a "C" (2.00). If a student on probation meets this requirement, but the cumulative GPA remains below 2.00, the student is given an additional semester on continued probation. At the end of continued

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

probation, the student must return to good standing (a minimum GPA of 2.00) to avoid disqualification.

**Disqualification.** Students who do not meet probation requirements are academically disqualified. Disqualified students should meet with an academic advisor. These students may attend ASU during summer and winter sessions; however, they are not eligible to enroll in upper-division business courses.

**Reinstatement and Readmission.** Students seeking reinstatement (after disqualification) or readmission (after an absence from the university) should contact Undergraduate Programs, in BA 109, regarding procedures and guidance for returning to good standing.

**Academic Dishonesty.** The faculty of the W. P. Carey School of Business follow the guidelines in the Student Academic Integrity Policy on academic dishonesty. A copy of the policy may be obtained in Undergraduate Programs, BA 109.

**Student Appeal Procedure on Grades.** The faculty of the W. P. Carey School of Business have adopted a policy on the student appeal procedure on grades. A copy of the policy may be obtained in Undergraduate Programs, BA 109.

### SPECIAL PROGRAMS

**Asian Studies.** Students in the W. P. Carey School of Business may pursue a program with an emphasis in Asian studies as part of the BS degree requirements in business. For more information, visit the Center for Asian Studies, in COOR 6611, or call 480/965-7184.

**Certificate in Dealership Management.** The Certificate in Dealership Management is available only to business majors at ASU. This certificate program provides students with the knowledge and basic skills necessary to enter careers in automotive dealership management. These skills include hiring and managing personnel and teams, understanding consumers and human behavior, managing financing and cash flows, handling the demand chain for car inventory, managing customer service operations, and managing new and used car marketing efforts.

Students are required to complete a bachelor's degree from the ASU W. P. Carey School of Business and complete a minimum of 15 semester hours of approved course work, including the following six hours:

COB 494 Special Topics .....	3
MGT 494 ST: Dealership Management.....	3
or MKT 494 ST: Dealership Management (3)	

To complete the certificate the student selects at least nine additional hours of business courses, including a three-semester-hour internship. Courses must be approved in advance by the faculty advisor for the certificate program. The student must complete the 15 semester hours of course work with grades of "C" (2.00) or higher.

To assure students a quality experience, space in the Certificate in Dealership Management program is limited and based on available resources. Professional program students must submit an application. Admission criteria include GPA, career goals, and application materials.

For more information, call 480/965-9640, visit BA 109, or access the Web site at [wpcarey.asu.edu/dealership](http://wpcarey.asu.edu/dealership).

**Certificate in Small Business and Entrepreneurship.** A certificate in Small Business and Entrepreneurship is available only to business majors at ASU. The certificate requires 15 semester hours of classes, of which the following six semester hours must be included:

MGT 440 Small Business and Entrepreneurship.....	3
MGT 445 Business Plan Development.....	3

The remaining nine semester hours consist of three additional upper-division courses relevant to small business. A copy of the approved electives for business majors pursuing the Certificate in Small Business and Entrepreneurship is available in Undergraduate Programs, BA 109. To receive the certificate, students must complete the specified business courses with a grade of "C" (2.00) or higher.

**Certificate in International Business Studies.** See "Certificate in International Business Studies," page 183, for requirements.

**Certificate in Quality Analysis.** The program of study leading to the Certificate in Quality Analysis prepares students to perform technical analyses associated with quality measurement and improvement of manufacturing and service processes. Graduates with the ability to implement these analyses are in high demand in the marketplace. This program is not a substitute for the listed areas of business specialization; rather, the courses required for the certificate add quantitative strength and implementation skills for quality tools to the student's chosen field of specialization.

Students are required to complete a minimum of 15 semester hours of approved course work, including the following nine hours:

MGT 450 Changing Business Processes L.....	3
QBA 321 Intermediate Business Statistics.....	3
QBA 421 Applied Quality Analysis.....	3

To complete the certificate, the student selects at least six additional hours of course work related to quality analysis approved in advance by the advisor for the certificate program. The student must also complete the 15 hours of course work with a minimum GPA of 2.50.

**BIS Concentration.** A concentration in quality analysis is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 124.

**Business Honors.** W. P. Carey School of Business students who have been admitted to the Barrett Honors College are eligible to participate in Business Honors.

Business Honors provides opportunities for academically talented undergraduate business students to interact with other leading students, faculty, and business professionals inside and outside the classroom. The result is a challenging



and enriched education experience that is valuable for professional or graduate work.

To be admitted to Business Honors, students must meet the following criteria:

1. be enrolled in the Barrett Honors College,
2. have a cumulative GPA of 3.40 or higher, and
3. have sufficient time to complete the honors requirements.

Upon acceptance into the program, a valuable learning experience begins. The honors course work consists of HON 171 and 172 The Human Event or HON 394 Special Topics and an additional 18 semester hours of upper-division honors courses, including the following six semester hours:

COB 492 Honors Directed Study.....	2
COB 494 ST: Honors Research .....	1
Honors Thesis* .....	3

\* See "Honors Courses," page 63, for an explanation of this course.

The ASU Honors Curriculum normally allows students to complete all requirements within the 120 semester hours of credit required for graduation.

Business Honors emphasizes activities beyond the normal classroom setting in order to broaden the educational experience. Such activities include special honors scholarships, student/faculty mixers, professional seminars and panel discussions, and the Global Business Series with the opportunity for international travel.

A specific academic advisor is assigned to assist honors students in course selection, to monitor progress toward honors recognition, and to be actively involved in career and educational guidance upon completion of the degree. Pre-business students should plan to meet with the honors advisor.

For more information, see "The Barrett Honors College," page 129, visit Business Honors in BA 150, call 480/965-8710, or access the Business Honors Web site at [wpcarey.asu.edu/honors](http://wpcarey.asu.edu/honors). Faxes may be sent to 480/727-7277.

**Rodel Community Scholars.** With the establishment of the Rodel Community Scholars Program, the ASU W. P. Carey School of Business greatly expands its effort to produce civic-minded business leaders for the Phoenix metropolitan area and Arizona. The program focuses the energy and intellect of talented ASU business students and their business faculty advisors on a substantial challenge: developing and implementing strategies to assist high-potential, at-risk students in targeted Valley high schools to graduate from ASU.

**Internships.** The school encourages students to complement their academic program with career-related work. This practical experience gives students a distinct advantage in the job market when seeking their first full-time professional positions. Additional benefits include industry contacts, a deeper understanding of career options, and monetary compensation that helps students finance their education.

Formal internships and co-ops offer professional work experience and experiential learning opportunities that enrich the student's academic preparation. Students may undertake internships in the summer or part-time during semesters. Co-op positions are full-time and require a one-semester or longer break in school attendance. The school provides guidelines to companies and encourages them to sponsor internship and co-op positions that benefit the firm and the student. Both benefit because positions are built around projects and challenging responsibilities that enable students to apply learning acquired in advanced business classes.

ASU Career Services and the W. P. Carey School of Business work cooperatively to help students identify and obtain career-related work. The process of obtaining internships and co-ops is a learning opportunity. Students use the same job-search skills and resources used to obtain permanent career positions. Informational materials, workshops, and required class activities help students learn job-search and career-exploration skills and locate internship and co-op opportunities.

Some academic units within the school offer internship courses. Work assignments for these courses must be approved in advance by a designated faculty member, and all internship courses include an academic component. Limited numbers of international internship opportunities are available through the school's foreign partner institutions. Eligibility for these internships may require the student to participate in an exchange with the partner institutions or to pay additional fees.

For more information, call 480/965-4227, visit BA 109, or meet with faculty advisors in the departments or Career Services, or access the school Web site at [wpcarey.asu.edu/up/internship.cfm](http://wpcarey.asu.edu/up/internship.cfm). Students interested in international internships should contact the W. P. Carey School of Business coordinator of international programs, in BA 114, or access the Web site at [wpcarey.asu.edu/up/ipo.cfm](http://wpcarey.asu.edu/up/ipo.cfm).

**Latin American Studies Center.** Students in the W. P. Carey School of Business may pursue a program with an emphasis in Latin American area studies. For more information, visit the Latin American Studies Center, in COOR 4450, or call 480/965-5127.

**Prelaw Studies.** Prelaw students may pursue a program of study in the W. P. Carey School of Business. Courses in accounting, economics, finance, insurance, labor relations, and statistics are recommended for any student planning to enter the legal profession.

The admission requirements of colleges of law differ considerably. The student should communicate with the admissions office of the law school the student hopes to attend and should plan a program to meet the requirements of that school. Most law schools, including the ASU College of Law, require a baccalaureate degree and completion of the Law School Admission Test (LSAT) for admission.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

Students who plan to complete a bachelor's degree before entering law school may follow any field of specialization in the W. P. Carey School of Business. Within the W. P. Carey School of Business are faculty members who are lawyers and who serve as advisors for students desiring a prelaw background. In addition to a student's assigned advisor, a prelaw advisor is available in the undergraduate office. More information is available on the prelaw Web site at [asu.edu/duas/advising/prelaw](http://asu.edu/duas/advising/prelaw).

### RESEARCH CENTERS

#### L. William Seidman Research Institute

The school has seven research centers operating under the umbrella of the L. William Seidman Research Institute. These centers provide support for faculty research, give opportunities for advanced graduate students' involvement with faculty, and provide information and assistance to the business community on a wide variety of subjects:

Bank One Economic Outlook Center  
Center for Advanced Purchasing Studies  
Center for the Advancement of Small Business  
Center for Advancing Business through Information Technology  
Center for Business Research  
Center for Services Leadership  
Institute for Manufacturing Enterprise Systems

The institute's mission is to encourage and support applied business research by serving as a public access point to the W. P. Carey School of Business, by supporting faculty and student research, by transferring new knowledge to the public, by encouraging the development of education programs grounded in applied business research, and by conducting high-quality, applied business research.

The institute increases the level of funded research by adding support services to facilitate grant preparation and assistance in grant administration and by facilitating the mission of research centers as liaisons between faculty and businesses. In addition, the institute provides desktop publishing services.

For more information, call 480/965-5362, access the institute's Web site at [wpcarey.asu.edu/seid](http://wpcarey.asu.edu/seid), or write

L. WILLIAM SEIDMAN RESEARCH INSTITUTE  
PO BOX 874011  
TEMPE AZ 85287-4011

## SCHOOL OF BUSINESS (COB)

**COB Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

#### COB 194 Special Topics. (1–4)

*selected semesters*

#### COB 294 Special Topics. (1–4)

*selected semesters*

#### COB 301 Business Forum. (1)

*fall, spring, summer*

Provides professional program business students with information on careers, interviewing, job hunting, and résumé skills. Must be taken in the first semester of the professional program for business students. See COB Note 1. Prerequisite: professional program business student.

#### COB 380 Small Business Leadership. (3)

*fall, spring, summer*

Develops leadership skills needed to form, lead, and operate a small business. Emphasizes creating a vision, research, and problem solving. Team teaching, collaborative learning. See COB Note 1. Prerequisites: 2.00 GPA; 47 hours; non-business major.

#### COB 381 Small Business Accounting and Finance. (3)

*fall and spring*

Accounting and finance skills needed by small business owners to acquire, allocate, and track monetary resources and evaluate performance. Team teaching, collaborative learning. See COB Note 1. Prerequisites: COB 380; 2.00 GPA; 56 hours; non-business major.

#### COB 382 Small Business Sales and Market Development. (3)

*fall and spring*

Building and maintaining customers, developing a market identity and a niche, and the importance of sales. Team teaching, collaborative learning. See COB Note 1. Prerequisites: COB 380; 2.00 GPA; 56 hours; non-business major.

#### COB 383 Small Business Working Relationships. (3)

*fall and spring*

Addresses communication and the people in a business—clients, employees, suppliers, competitors, governments, family, and self development. Team teaching, collaborative learning. See COB Note 1. Prerequisites: COB 380; 2.00 GPA; 56 hours; non-business major.

#### COB 384 Small Business Operations and Planning. (3)

*fall and spring*

Planning and executing plans—the what, when, where, how, and who from product/service/project idea to pay back or completion. Team teaching, collaborative learning. See COB Note 1. Prerequisites: COB 380; 2.00 GPA; 56 hours; non-business major.

#### COB 394 Special Topics. (1–4)

*fall and spring*

See COB Note 1.

#### COB 492 Honors Directed Study. (2)

*fall and spring*

See COB Note 1.

#### COB 494 Special Topics. (1–4)

*fall and spring*

See COB Note 1. Topics may include the following:

- Financial Resources
- Honors Research. (1)
- Human Resources

#### COB 497 Honors Colloquium. (1–6)

*selected semesters*

See COB Note 1. Topics may include the following:

- Professional Leadership Forum. (3)

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

## School of Accountancy

wpcarey.asu.edu/acc

480/965-3631

BA 223

**James R. Boatsman, Director**

**Professors:** J.R. Boatsman, Christian, Gupta, Johnson, Kaplan, Ohlson, Pany, Pei, Reckers, Schultz

**Associate Professors:** Golen, Hwang, Regier, Whitecotton

**Assistant Professors:** Comprix, Lee, O'Donnell, Petersen, Robinson, Rowe, Weiss

**Senior Lecturers:** Geiger, Goldman, Maccracken

**Lecturers:** J.L. Boatsman, Levendowski, Munshi, Wigal

### ADMISSION

The School of Accountancy follows the W. P. Carey School of Business policies and procedures for admission to its undergraduate professional program in Accountancy.

To be considered for admission to the Accountancy major, a student must meet the W. P. Carey School of Business admission requirements, and have a grade of "C" (2.00) or higher in an introductory computer programming course as specified by the school. CIS 220 or its equivalent is taken in place of CIS 200.

Due to resource limitations, admission to the school's program is very competitive. Applicants are reviewed using a portfolio approach. Among the factors considered are cumulative GPA, skill course GPA, transfer GPA and institution (if applicable), SAT or ACT scores, work experience, demonstrated community involvement and leadership skills, and responses to questions in the professional program application. Current admission statistics are available in Undergraduate Programs, BA 109, in the W. P. Carey School of Business.

### ACCOUNTANCY—BS

The major in Accountancy includes the essential academic preparation for students who are

1. pursuing professional careers in public, corporate, and governmental accounting;
2. seeking positions in personal financial planning and portfolio analysis;
3. seeking positions in consulting;
4. planning to operate their own businesses; or
5. planning to pursue a graduate degree or attend law school.

The major in Accountancy consists of the following courses:

ACC 330 Enterprise Process Analysis and Design.....	3
ACC 340 External Reporting I.....	3
ACC 350 Internal Reporting.....	3
ACC 430 Taxes and Business Decisions <i>L</i> .....	3
ACC 440 External Reporting II.....	3
ACC 450 Principles of Auditing.....	3
Total .....	18

As part of the requirements, all Accountancy majors must complete the following courses:

ACC 250 Introductory Accounting Lab.....	1
CIS 220 Programming Concepts for Accountancy Majors <sup>1</sup> .....	3
CIS 360 Business Database Concepts.....	3
COM 100 Introduction to Human Communication <i>SB</i> <sup>2</sup> .....	3
or COM 230 Small Group Communication <i>SB</i> <sup>2</sup> (3)	
COM 259 Communication in Business and the Professions.....	3
ECN 306 Survey of International Economics <i>SB</i> , <i>G</i> <sup>3</sup> .....	3
Electives <sup>4</sup> .....	9
Total .....	25

<sup>1</sup> CIS 220 is used in the business core in place of CIS 200.

<sup>2</sup> COM 230 is recommended over COM 100.

<sup>3</sup> ECN 306 is counted in the business core in place of the international business course.

<sup>4</sup> Electives must be selected from a list approved by the School of Accountancy.

Accountancy majors must complete two CIS courses approved by the School of Accountancy (one of these courses must be CIS 220 Programming Concepts for Accountancy Majors, which is included within the business core).

### MAJOR PROFICIENCY REQUIREMENTS

In addition to school of business and university requirements, Accountancy majors must receive grades of "C" (2.00) or higher in the required upper-division major and major support courses. If a student receives a grade below "C" (2.00) in any required upper-division major course, this course must be repeated before any other upper-division major course can be taken. If a second grade below "C" (2.00) is received in either an upper-division major course already taken or in a different upper-division major course, the student is no longer eligible to take additional upper-division major courses.

### GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

*L* literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SO* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 92.

### ACCOUNTANCY (ACC)

**ACC Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

#### **ACC 230 Uses of Accounting Information I. (3)**

*fall, spring, summer*

Introduces the uses of accounting information focusing on the evolution of the business cycle, including hands-on exposure to enterprise systems. Prerequisite: sophomore standing.

#### **ACC 240 Uses of Accounting Information II. (3)**

*fall, spring, summer*

Introduces the uses of accounting information focusing on the evolution of the business cycle, including hands-on exposure to enterprise systems. Prerequisites: ACC 230; sophomore standing.

#### **ACC 250 Introductory Accounting Lab. (1)**

*fall, spring, summer*

Procedural details of accounting for the accumulation of information and generation of reports for internal and external users. Lab. Fee. Prerequisites: ACC 230; sophomore standing.

#### **ACC 315 Financial Accounting and Reporting. (3)**

*fall and spring*

Accounting theory and practice related to uses of financial statements by external decision makers. See ACC Note 1. Prerequisite: non-Accountancy major. Prerequisites with a grade of "C" (2.00) or higher: ACC 240, 250.

#### **ACC 316 Management Uses of Accounting. (3)**

*fall and spring*

Uses of accounting information for managerial decision making, budgeting, and control. See ACC Note 1. Prerequisites: ACC 240; non-Accountancy major.

#### **ACC 330 Enterprise Process Analysis and Design. (3)**

*fall, spring, summer*

Analysis and design of efficient and effective business processes. Emphasizes taking advantage of new information technologies to improve managerial decision making. Fee. See ACC Note 1. Prerequisite: professional program business student majoring in Accountancy or Computer Information Systems.

#### **ACC 340 External Reporting I. (3)**

*fall, spring, summer*

Financial accounting theory and practice related to external reporting. See ACC Note 1. Prerequisites: FIN 300; professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 250.

#### **ACC 350 Internal Reporting. (3)**

*fall, spring, summer*

Internal reporting systems for planning, control, and decision making. See ACC Note 1. Prerequisites: SCM 300; professional program business student majoring in Accountancy. Prerequisites with a grade of "C" (2.00) or higher: ACC 250, 330.

#### **ACC 394 Special Topics. (1-4)**

*fall and spring*

See ACC Note 1. Topics may include the following:

- Financial Analysis and Accounting for Small Businesses. (3)

#### **ACC 430 Taxes and Business Decisions. (3)**

*fall, spring, summer*

Federal income taxation of sole proprietors, partnerships, corporations, fiduciaries, and individuals with an emphasis on tax consequences of business and investment decisions. See ACC Note 1. Prerequisites: LES 305; professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 340.

*General Studies: L*

#### **ACC 432 Problems in Managerial Accounting. (3)**

*selected semesters*

Cases and computer applications in decision making, planning and control, and capital budgeting. See ACC Note 1. Prerequisite: professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 350.

#### **ACC 440 External Reporting II. (3)**

*fall, spring, summer*

Continuation of ACC 340 with emphasis on the recognition, research, and resolution of financial reporting issues. See ACC Note 1.

Prerequisite: professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 340.

#### **ACC 450 Principles of Auditing. (3)**

*fall and spring*

Standards and procedures in auditing. Planning, evidence gathering and accumulation, and reporting. Ethical and legal considerations.

Fee. See ACC Note 1. Prerequisite: professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 440.

#### **ACC 467 Management Advisory Services. (3)**

*selected semesters*

Concepts and methods of providing advisory services with respect to accounting information systems and financial analysis. Administration of consulting practices. See ACC Note 1. Prerequisite: professional program business student majoring in Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 330.

#### **ACC 494 Special Topics. (1-4)**

*selected semesters*

See ACC Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## Business Administration

[www.east.asu.edu/ecollege/businessadmin](http://www.east.asu.edu/ecollege/businessadmin)

480/727-1515

SUTTON Third Floor

### Roger W. Hutt, Faculty Head

The Business Administration program focuses on the fundamental functions and activities performed in for-profit as well as not-for-profit organizations. The curriculum enables students to gain essential business competencies, knowledge of business disciplines and methods, and appreciation for contemporary business environments and cultures. Students are provided opportunities to gain additional depth in areas of their choosing. Students are prepared for careers in which a broad background and general knowledge in the field of business are requirements. Graduates may choose to enter one of the areas of business or industry for which their emphasis on business fundamentals has prepared them, to start their own businesses, or to pursue careers with local, state, or federal government. Some graduates choose to continue their education by enrolling in graduate programs or law school. Courses are taught at the East campus.

For more information, see "Faculty of Business Administration," page 548.

**BUSINESS ADMINISTRATION—BS**

Requirements for the Business Administration major consist of 30 semester hours of lower-division core and skill courses, 22 semester hours of upper-division core courses, a three hour capstone course, and 18 semester hours of approved electives. All of the upper-division business courses (with the exception of nine semester hours) must be taken at the East campus.

**Business Administration Core**

E BUA 394 ST: Business Professional Development .....	1
E FIN 300 Fundamentals of Finance.....	3
E IBS 300 Principles of International Business G .....	3
E LES 305 Legal, Ethical, and Regulatory Issues in Business .....	3
E MGT 300 Organizational Management and Leadership .....	3
E MKT 300 Principles of Marketing .....	3
E SCM 300 Global Supply Operations .....	3
E TWC 447 Business Reports L .....	3
Total .....	22

**Capstone Course**

E MGT 440 Small Business and Entrepreneurship .....	3
or E MGT 494 ST: Strategic Management (3) .....	3
Total .....	3

**Approved Electives.** Students select 18 semester hours of electives toward a goal of building upon and integrating prior and current course work. This set of courses, which must be approved by the Business Administration program head, allows students to study a subset of business problems or issues and focus on career interests.

**MINOR IN SMALL BUSINESS**

The minor in Small Business is available to nonbusiness majors and consists of 18 semester hours with five required courses and one approved elective. BUA 380 Small Business Leadership is a prerequisite or corequisite for the other courses.

**Required Courses**

E BUA 380 Small Business Leadership.....	3
E BUA 381 Small Business Accounting and Finance .....	3
E BUA 382 Small Business Sales and Market Development .....	3
E BUA 383 Small Business Working Relationships.....	3
E BUA 384 Small Business Operations and Planning .....	3
Approved Elective.....	3
Total .....	18

**BIS CONCENTRATION IN SMALL BUSINESS**

The requirements for the small business concentration, offered to Bachelor of Interdisciplinary Studies majors only, are identical to those for the minor in Small Business listed above. For BIS degree requirements, see "School of Interdisciplinary Studies," page 124.

**Department of Economics**

wpcarey.asu.edu/ecn

480/965-3531

BAC 659

**Arthur E. Blakemore, Chair**

**Professors:** Blakemore, Boyes, Brada, Burdick, Burgess, DeSerpa, Happel, Hoffman, Kingston, Low, Manelli, Mayer, McDowell, McPheters, Melvin, Méndez, Ormiston, Prescott, Rogerson, Santos, Schlee, Zhou

**Associate Professors:** Ahn, Chade, Datta, Herrendorf, Refett

**Senior Lecturer:** Roberts

The W. P. Carey School of Business offers a Bachelor of Science (BS) degree in Economics. The BS program of study can be designed for students intending to seek employment in the private or public sector upon completion of their undergraduate studies. Such a program provides students with the typical analytical and quantitative skills employers expect of individuals holding economics degrees. The BS program of study can also be tailored to prepare students for graduate programs in economics, business, or law.

**ECONOMICS—BS**

Requirements for the W. P. Carey School of Business BS in Economics consist of three parts: university requirements, see "University Graduation Requirements," page 88, for all students at ASU; the requirements of the W. P. Carey School of Business; and the requirements of the Department of Economics.

**DEPARTMENT OF ECONOMICS REQUIREMENTS**

The BS program of study consists of 24 semester hours of upper-division course work as shown below. To qualify for upper-division course work in economics, business students must be admitted to the W. P. Carey School of Business professional program or the Barrett Honors College. Students must meet all prerequisites and course requirements as listed in the catalog:

1. Economic Theory: ECN 313 and 314;
2. Econometrics and Statistics: ECN 410 or 425 or QBA 321 or STP 421;
3. A Capstone course or Honors Thesis: ECN 475 or 493; and
4. Economics electives at the 300-level or above to fill out the remaining hours. At least two of these

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

courses must be at the 400-level or above. A maximum of three semester hours of ECN 484 Economics Internship can be used to satisfy this requirement. ECN 475 and 493 cannot be used to fulfill this requirement.

## SECONDARY EDUCATION—BAE

For more information, see "Secondary Education—BAE," page 366.

## MAJOR PROFICIENCY REQUIREMENTS

Students must receive a grade of "C" (2.00) or higher in all upper-division courses in the major. If a student receives a grade below "C" (2.00) in any course in the major, the course must be repeated. If a second grade below "C" (2.00) is received in the same course or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in the major. Any upper-division course in which a grade lower than "C" (2.00) is earned may be repeated only one time.

## GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students must fulfill university requirements, see "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

## SPECIAL PROGRAMS

**Latin American Studies Certificate or Emphasis.** Students majoring in Economics may elect to pursue a Latin American Studies Certificate or emphasis, combining courses from the major with selected courses of wholly Latin American content. For more information, see "Latin American Studies Center," page 173.

**Certificate in International Business Studies.** Students majoring in Economics may elect to pursue a Certificate in International Business Studies, combining courses from the major with selected international business courses. For more information, see "International Business Studies," page 183.

**Certificate in Quality Analysis.** Students majoring in Economics may elect to pursue a Certificate in Quality Analysis, combining courses from the major with selected technical analysis courses. For more information, see "Certificate in Quality Analysis," page 172.

**Nonbusiness Students.** A nonbusiness student is eligible to register for upper-division economics courses if the student has met all prerequisites and course requirements as listed in the catalog.

**Business Honors.** Students admitted to the Barrett Honors College may substitute ECN 294 ST: Macroeconomics for ECN 111 and 313 and ECN 294 ST: Microeconomics for ECN 112 and 314. These courses with grades of "C" (2.00) or higher satisfy the prerequisites and/or corequisites for all 400-level economics courses. Students who take six hours of ECN 294 will take six hours of other upper-division economics courses in lieu of ECN 313 and 314.

## ECONOMICS (ECN)

**ECN Note 1.** MAT 210 or 270 with a grade of "C" (2.00) or higher is a prerequisite for all upper-division economics courses except ECN 382 and 384.

**ECN Note 2.** ECN 313 and 314 with grades of "C" (2.00) or higher are prerequisites or pre- or corequisites for all 400-level economics courses.

### ECN 111 Macroeconomic Principles. (3)

*fall, spring, summer*

Basic macroeconomic analysis. Economic institutions and factors determining income levels, price levels, and employment levels.

*General Studies: SB*

### ECN 112 Microeconomic Principles. (3)

*fall, spring, summer*

Basic microeconomic analysis. Theory of exchange and production, including the theory of the firm.

*General Studies: SB*

### ECN 294 Special Topics. (1–4)

*once a year*

Topics may include the following:

- **Macroeconomics. (3)**  
Introduces modern macroeconomic analysis. Theory of national income, unemployment, inflation, and economic growth and its application to economic policy. Not open to students with credit in ECN 313.
- **Microeconomics. (3)**  
Introduces modern microeconomic analysis. Theories of consumer behavior, production, and cost. Output and price determination in a variety of market settings. Welfare economics, general equilibrium, externalities, and public goods. Not open to students with credit in ECN 314.

Prerequisite: Barrett Honors College student. Pre- or corequisite: MAT 210 or 270 or AP calculus.

### ECN 306 Survey of International Economics. (3)

*fall, spring, summer*

Survey of international trade issues, commercial policy, trade theory, customs unions, and international monetary topics. Cross-listed as IBS 306. Credit is allowed for only ECN 306 or IBS 306. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB, G*

### ECN 313 Intermediate Macroeconomic Theory. (3)

*fall, spring, summer*

Determinants of aggregate levels of employment, output, and income of an economy. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB*

### ECN 314 Intermediate Microeconomic Theory. (3)

*fall, spring, summer*

Role of the price system in organizing economic activity under varying degrees of competition. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB*

### ECN 315 Money and Banking. (3)

*once a year*

Functions of money. Monetary systems, credit functions, banking practices, and central banking policy. See ECN Note 1. Prerequisites: ECN 111, 112.

### ECN 331 Alternative Economic Systems. (3)

*once a year*

Alternative institutions, past and present, for organizing the social division of labor. Property rights, information, and incentives in industrial societies. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB, G*

### ECN 360 Economic Development. (3)

*selected semesters*

Theories of economic growth and development. Role of capital formation, technological innovation, population, and resource development in economic growth. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB, G*

**ECN 365 Economics of Russia and Eastern Europe. (3)***selected semesters*

Origins and analysis of contemporary institutions. Comparative development and differentiation in the 20th century. See ECN Note 1. Prerequisites: ECN 111, 112.

*General Studies: SB, G***ECN 382 Managerial Economics. (3)***fall, spring, summer*

Applies economic analysis to managerial decision making. Market analysis in the context of the socio-legal environment. Does not satisfy Economics major requirements. Prerequisites: minimum ASU GPA of 2.00; junior standing.

**ECN 384 Economics of Social Behavior. (3)***selected semesters*

Applies economic analysis to contemporary behavior; discrimination, work versus leisure, crime, medical care, macroeconomic policies. Does not satisfy Economics major requirements. Prerequisites: minimum ASU GPA of 2.00; junior standing.

*General Studies: SB***ECN 394 Special Topics. (3)***selected semesters*

Current topics of domestic or international interest. See current *Schedule of Classes* for offerings. See ECN Note 1. Prerequisites: ECN 111, 112.

**ECN 404 History of Economic Thought. (3)***once a year*

Development of economic doctrines, theories of mercantilism, physiocracy, classicism, neoclassicism, Marxism, and contemporary economics. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

*General Studies: SB***ECN 410 Applied Business Forecasting. (3)***once a year*

Applies forecasting techniques in business and institutional environments. Fee. Prerequisite: STP 226 or QBA 221.

**ECN 421 Earnings and Employment. (3)***once a year*

Origins of labor movement, analysis of labor unions, labor markets, collective bargaining, and current policy issues. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

*General Studies: SB***ECN 425 Introduction to Econometrics. (3)***once a year*

Elements of regression analysis: estimation, hypothesis tests, prediction. Emphasizes use of econometric results in assessment of economic theories. See ECN Note 2. Prerequisites: ECN 314; QBA 221 (or STP 226). Pre- or corequisite: ECN 313.

*General Studies: CS***ECN 436 International Trade Theory. (3)***once a year*

Comparative-advantage doctrine, including practices under varying commercial policy approaches. Economic impact of international disequilibrium. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

*General Studies: SB, G***ECN 438 International Monetary Economics. (3)***once a year*

History, theory, and policy of international monetary economics. Balance of payments and exchange rates. International financial markets, including Eurocurrency markets. See ECN Note 2. Prerequisite: ECN 313. Pre- or corequisite: ECN 314.

*General Studies: SB, G***ECN 441 Public Finance. (3)***once a year*

Public goods, externalities, voting models, public expenditures, taxation, and budget formation with emphasis on the federal government. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

*General Studies: SB***ECN 450 Law and Economics. (3)***once a year*

Economics of the legal system, including analysis of property, contracts, torts, commercial law, and other topics. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

**ECN 453 Government and Business. (3)***once a year*

Development of public policies toward business. Antitrust activity. Economic effects of government policies. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

**ECN 470 Mathematical Economics. (3)***once a year*

Integrates economic analysis and mathematical methods into a comprehensive body of knowledge within contemporary economic theory. See ECN Note 2. Prerequisite: ECN 314. Pre- or corequisite: ECN 313.

**ECN 475 Capstone in Economics. (3)***fall and spring*

Capstone course integrating several areas of economics. See ECN Note 2. Prerequisites: ECN 313, 314. Pre- or corequisite: ECN 425.

*General Studies: L***ECN 484 Economics Internship. (3)***fall, spring, summer*

Academic credit for professional work organized through the Internship Program. See ECN Note 2. Prerequisite: minimum cumulative ASU GPA of 3.00. Prerequisites: ECN 313, 314.

**ECN 493 Honors Thesis. (3)***fall and spring*

See ECN Note 2.

*General Studies: L***ECN 494 Special Topics. (1–4)***selected semesters*

Current economic topics of domestic or international interest. Analytical emphasis may be macro, micro, or both. See current *Schedule of Classes* for offerings. See ECN Note 2. Prerequisites: ECN 313, 314.

**ECN 498 Pro-Seminar. (3)***selected semesters*

Topics chosen from current area of interest. See ECN Note 2. Prerequisites: ECN 313, 314.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

**QUANTITATIVE BUSINESS ANALYSIS (QBA)****QBA 221 Statistical Analysis. (3)***fall and spring*

Methods of statistical description. Applies probability theory and statistical inference in business. Fee. Prerequisite: MAT 119 or 271.

*General Studies: CS***QBA 321 Intermediate Business Statistics. (3)***once a year*

Applies advanced statistical methods used in business and economic research. Primary emphasis on regression analysis and modeling. Prerequisite: QBA 221.

**QBA 421 Applied Quality Analysis. (3)***once a year*

Applies statistical tools to improve business processes and increase quality. Topics include data analysis tools, experimental design, customer surveys, process control, and process capability. Prerequisite: QBA 221.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.



## Department of Finance

wpcarey.asu.edu/fin

480/965-3131

BAC 519

**Jeffrey L. Coles, Chair**

**Professors:** Booth, Coles, Hertz, Kaufman, Poe, Sushka

**Associate Professors:** Cesta, Gallinger, Hoffmeister, Wilt

**Assistant Professors:** Deli, Dieckman, Juergens, Lindsey, Martin, Nardari, Strickland

**Clinical Assistant Professors:** Licon, Simonson

**Professor of Practice:** Stearns

**Lecturer:** Hoffman

### FINANCE—BS

The study of finance prepares students to understand the financial implications inherent in virtually all business decisions. Students majoring in Finance are prepared for entry-level careers in corporate management, depository institutions, investment management, and financial services. The finance curriculum emphasizes financial markets, evaluation of investments, and efficient allocation of resources. The major in Finance consists of the following courses:

ACC 315 Financial Accounting and Reporting .....	3
FIN 331 Financial Markets and Institutions .....	3
FIN 361 Managerial Finance .....	3
FIN 421 Security Analysis and Portfolio Management .....	3
FIN 461 Financial Cases and Modeling L .....	3
One additional approved 400-level FIN course .....	3
<b>Total .....</b>	<b>18</b>

As part of the requirements, all Finance majors must complete ACC 250 Introductory Accounting Lab. Finance majors are strongly advised to take ACC 316 Management Uses of Accounting. FIN 484 Finance Internship is available for nonmajor elective credit.

ACC 250 must be completed before taking ACC 315. FIN 300 must be completed before taking FIN 331 and 361. FIN 331 and 361 and ACC 315 must be completed before taking 400-level FIN courses.

### MAJOR PROFICIENCY REQUIREMENTS

Students must receive grades of "C" (2.00) or higher in upper-division courses for the major. If a student receives a grade below "C" (2.00) in any course in the major, this course must be repeated before taking any further courses for which this course is a prerequisite. If a second grade below "C" (2.00) is received in either an upper-division course in the major already taken or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in that major.

## GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

### FINANCE (FIN)

**FIN Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

#### FIN 300 Fundamentals of Finance. (3)

*fall, spring, summer*

Theory and problems in financial management of business enterprises. Prerequisites: ACC 240; ECN 112; QBA 221. Pre- or corequisite: SCM 300.

#### FIN 331 Financial Markets and Institutions. (3)

*fall, spring, summer*

Analyzes financial markets and intermediaries. Theory of financial intermediation, interest rate theory, money and capital market instruments, and government regulation. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisite with a grade of "C" (2.00) or higher: FIN 300.

#### FIN 361 Managerial Finance. (3)

*fall, spring, summer*

Theories and problems in resource allocation, cost of capital, CAPM and capital budgeting, asset valuation, capital structure, and financing policy. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisite with a grade of "C" (2.00) or higher: FIN 300.

#### FIN 380 Personal Financial Management. (3)

*fall, spring, summer*

Dynamic analysis of personal financial planning, including time value of money, stock and bond investment, and retirement and estate planning. See FIN Note 1. Prerequisites: minimum cumulative GPA of 2.00; junior standing; non-Finance major.

#### FIN 394 Special Topics. (1–4)

*selected semesters*

See FIN Note 1.

#### FIN 421 Security Analysis and Portfolio Management. (3)

*fall, spring, summer*

Security analysis theory and practice. Selection and management of financial asset portfolios. Securities markets and portfolio risk-return analysis. Lecture, discussion. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisites with a grade of "C" (2.00) or higher: ACC 315; FIN 331, 361.

#### FIN 427 Derivative Financial Securities. (3)

*fall, spring, summer*

Study of stock options, index options, convertible securities, financial futures, warrants, subscription rights, and arbitrage pricing theory. Lecture, discussion. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisite with a grade of "C" (2.00) or higher: FIN 421.

#### FIN 431 Management of Financial Institutions. (3)

*fall, spring, summer*

Asset/liability and capital management in financial institutions. Influence of market factors and regulatory agencies. Emphasizes commercial banks. Lecture, discussion. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisites with a grade of "C" (2.00) or higher: ACC 315; FIN 331, 361.

#### FIN 456 International Financial Management. (3)

*fall, spring, summer*

Exchange rate determination, financial markets, managing multinational corporations, capital budgeting, and hedging currency risk exposure from an international perspective. See FIN Note 1. Prerequisite: professional program business student majoring in

Finance. Prerequisites with a grade of "C" (2.00) or higher: ACC 315; FIN 331, 361.

*General Studies: G*

**FIN 461 Financial Cases and Modeling. (3)**

*fall and spring*

Case-oriented capstone course in managerial finance. Contemporary issues of liquidity management, capital budgeting, capital structure, and financial strategy. Lecture, discussion, group work. See FIN Note 1. Prerequisite: professional program business student majoring in Finance. Prerequisites with a grade of "C" (2.00) or higher: ACC 315; FIN 331, 361.

*General Studies: L*

**FIN 481 Honors Seminar in Finance. (3)**

*once a year*

Honors course covering topics that include theory and applications concerning managerial finance, investments, and financial institutions. Lecture, discussion. See FIN Note 1. Prerequisite: Finance Business Honors program student. Prerequisites with a grade of "C" (2.00) or higher: ACC 315; FIN 331, 361.

**FIN 484 Finance Internship. (3)**

*fall, spring, summer*

Academic credit for field work in finance organized through the internship program. See FIN Note 1. Prerequisites: FIN 331, 361; instructor approval.

**FIN 494 Special Topics. (1–4)**

*selected semesters*

See FIN Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## School of Health Management and Policy

[wpcarey.asu.edu/hmp](http://wpcarey.asu.edu/hmp)

480/965-7778

BA 318

**Jeffrey R. Wilson, Director**

**Professors:** Baldwin, Johnson, Kirkman-Liff, Schneller

**Associate Professors:** Reiser, Wilson

**Assistant Professors:** Furukawa, Jehn

**Research Professors:** Patton, Warne

**Associate Research Professor:** Schwenke

While the School of Health Management and Policy does not offer an undergraduate major, a number of courses at the 200 and 400 levels are available to students who have a strong interest in health care, public health, and health policy. Students may enroll in these courses regardless of their undergraduate major. Registration for courses at the 400 level is with permission of the instructor and subject to seat availability.

## HEALTH SECTOR MANAGEMENT (HSM)

**HSM Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

**HSM 220 Health Care Organizations. (3)**

*fall, spring, summer*

Overview of United States health care delivery systems; financing, health policy, basic principles of budgeting, cost-benefit analysis, and resource management. Cross-listed as HCR 220. Credit is allowed for only HCR 220 or HSM 220.

*General Studies: H*

**HSM 498 Pro-Seminar. (1–7)**

*selected semesters*

See HSM Note 1. Topics may include the following:

- Health Care Finance. (3)
- Health Economics. (3)
- Health Service Administration and Policy. (3)
- Legal and Ethical Issues in Healthcare. (3)
- Policy Issues in Health Care. (3)

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## Department of Information Systems

[wpcarey.asu.edu/is](http://wpcarey.asu.edu/is)

480/965-3252

BA 223

**Robert D. St. Louis, Chair**

**Professors:** Goul, Roy, St. Louis, Steinbart, Vinze

**Associate Professors:** David, Iyer, Keim, Kulkarni, O'Leary

**Assistant Professors:** Chen, Demirkan, Dowling, Ravindran, Roussinov, Santanam, Shao

**Senior Lecturers:** Birney, Hayes, Shrednick

**Lecturer:** McCarthy

## ADMISSION

The Department of Information Systems follows the W. P. Carey School of Business policies and procedures for admission to its undergraduate professional program in Computer Information Systems.

To be considered for admission to the Computer Information Systems major, a student must meet the W. P. Carey

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

School of Business admission requirements and have a grade of "C" (2.00) or higher in an introductory computer science course as specified by the school. CSE 181 or its equivalent is taken in place of CIS 200 (check with the department regarding this option).

Due to resource limitations, admission to the program is very competitive. Applicants are reviewed using a portfolio approach. Among the factors considered are cumulative GPA, skill course GPA, transfer GPA and institution (if applicable), SAT or ACT scores, work experience, demonstrated community involvement and leadership skills, and responses to questions in the professional program application. Current admission statistics are available at the Undergraduate Programs Office in the W. P. Carey School of Business.

### COMPUTER INFORMATION SYSTEMS—BS

Computer Information Systems (CIS) involves the design, development, and maintenance of information systems that support both business operations and managerial decision-making. Students majoring in Computer Information Systems develop familiarity with software application development, database development, and network deployment. Special emphasis is placed on business process workflows, systems integration, and project management. The focus throughout the program is on using information technology to add value to organizations. Specific skills include Java, Visual Basic, SQL, Oracle, Access, network security, and Web services. Students also acquire problem solving, critical thinking, communication, and team-building skills.

A degree in Computer Information Systems offers a diverse range of job opportunities in a variety of industries, including entertainment, national defense, transportation, education, healthcare, and finance. Information systems is also a key component in the success of other functional business areas such as accounting, supply chain, finance, and marketing.

Entry-level information systems positions include database administrator, systems analyst, network administrator, project manager, systems administrator, and consultant. Long-term career aspirations for a student with a CIS degree include chief information officer (CIO), chief technology officer (CTO), chief knowledge officer (CKO), chief security officer (CSO), and chief executive officer (CEO). The average beginning salary is in the mid to high \$40,000s.

*U.S. News & World Report* ranks the ASU CIS program among the nation's top 20 public and private programs.

The major in Computer Information Systems consists of the following courses:

ACC 330 Enterprise Process Analysis and Design.....	3
CIS 340 Object-Oriented Modeling and Programming .....	3
CIS 360 Business Database Concepts.....	3
CIS 425 Electronic Commerce Strategy .....	3
CIS 430 Networks and Distributed Systems .....	3
CIS 440 Systems Design and Electronic Commerce L.....	3
Total .....	18

All Computer Information Systems majors must complete an introductory computer science course as specified by the department, which may be used as a school of business requirement, and CIS 235 Business Information Systems Development, which is used in the business core.

### MAJOR PROFICIENCY REQUIREMENTS

In addition to school of business and university requirements, Computer Information Systems majors must receive grades of "C" (2.00) or higher in the required upper-division major courses. If a student receives a grade below "C" (2.00) in any required upper-division major course, this course must be repeated before any other upper-division major course can be taken. If a second grade below "C" (2.00) is received in either an upper-division major course already taken or in a different upper-division major course, the student is no longer eligible to take additional upper-division major courses.

### GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

### COMPUTER INFORMATION SYSTEMS (CIS)

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**CIS Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

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**CIS 200 Computer Applications and Information Technology. (3)**  
*fall, spring, summer*

Introduces business information systems and the uses of business application software with emphasis on database and spreadsheet packages. Fee. Prerequisite: MAT 117 or higher.

*General Studies: CS*

**CIS 220 Programming Concepts for Accountancy Majors. (3)**  
*fall, spring, summer*

Introduces business computer programming. Uses programming languages such as Visual BASIC to teach proper programming style and practice. Fee. Prerequisite: prebusiness student.

**CIS 235 Business Information Systems Development. (3)**  
*fall, spring, summer*

Developing information systems and electronic commerce applications using object-oriented languages (e.g., Java). Introduces business technology and systems analysis. Fee. Prerequisite: MAT 119 or 210. Prerequisite with a grade of "C" (2.00) or higher: CIS 200.

**CIS 300 Web Design and Development. (3)**  
*fall and spring*

Focuses on Web site development, including target audience, image presentation, page/content topic organization, site navigational functionality, implementation needs, and future needs. Web site design and development practice using business software products. See CIS Note 1.

**CIS 335 Visual Paradigms for Information Systems Development. (3)**  
*selected semesters*

Uses visual programming languages such as Visual BASIC to implement data structures, file structures, and interfaces in business information systems. Fee. See CIS Note 1. Prerequisites: both CSE 100 and professional program business student majoring in Computer Information Systems or both CIS 220 and professional program business student majoring in Accountancy.

**CIS 340 Object-Oriented Modeling and Programming. (3)**  
*fall and spring*

Object-oriented modeling of business information systems. Abstract data types and object-oriented programming using a language such as Java. Fee. See CIS Note 1. Prerequisite: professional program

business student majoring in Computer Information Systems. Prerequisites with a grade of "C" (2.00) or higher: CIS 235; CSE 181.

**CIS 360 Business Database Concepts. (3)**

*fall and spring*

Database theory, design, and application, including the entity-relationship model; the relational, hierarchical, and network database models; and query languages. Fee. See CIS Note 1. Prerequisite: professional program business student majoring in Computer Information Systems or Accountancy. Prerequisite with a grade of "C" (2.00) or higher: ACC 330.

**CIS 394 Special Topics. (1-4)**

*selected semesters*

See current *Schedule of Classes* for offerings of courses at East campus. See CIS Note 1.

**CIS 425 Electronic Commerce Strategy. (3)**

*fall and spring*

Key business strategies and technology elements of contemporary electronic commerce. Covers Web design and interactions between Web pages and databases. See CIS Note 1. Prerequisite: professional program business student majoring in Computer Information Systems or Accountancy. Prerequisite with a grade of "C" (2.00) or higher: CIS 360.

**CIS 430 Networks and Distributed Systems. (3)**

*fall and spring*

Advanced topics such as communications protocols, distributed systems, and client-server systems; applications based on platforms such as networked UNIX. Fee. See CIS Note 1. Prerequisites with a grade of "C" (2.00) or higher: ACC 330; CIS 340; professional program business student majoring in Computer Information Systems. Pre- or corequisite with a grade of "C" (2.00) or higher: CIS 360.

**CIS 440 Systems Design and Electronic Commerce. (3)**

*fall and spring*

Systems design for organizational and electronic commerce systems; use of project management and systems analysis and design tools. Fee. See CIS Note 1. Prerequisites with a grade of "C" (2.00) or higher: CIS 360, 430; professional program business student majoring in Computer Information Systems.

*General Studies: L*

**CIS 494 Special Topics. (1-4)**

*selected semesters*

See CIS Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## International Business Studies

[wpcarey.asu.edu/up/ipo.cfm](http://wpcarey.asu.edu/up/ipo.cfm)

480/965-0596

BA 109

Josef C. Brada, Director

Adela Gasca, Coordinator

### Certificate in International Business Studies

The Certificate in International Business Studies is designed to prepare students for positions with multinational firms, banks, government agencies, and international organizations. The certificate is not a substitute for the listed areas of business specialization; rather, the program of study for the certificate enables students to apply business skills in a global environment.

Requirements for the certificate are designed to provide an understanding of international business environments, principles, and operations; to provide an awareness of global social processes and a sensitivity to foreign cultures; and to develop competence in a foreign language. These objectives are met in the following ways: international business principles and operations, global and area studies, foreign language, and GPA proficiency. Students seeking the certificate are strongly encouraged to obtain some international experience through study in a foreign country.

**International Business Principles and Operations.** At least nine semester hours of approved courses in international business are required. Students must take either IBS 300 Principles of International Business or ECN/IBS 306 Survey of International Economics. Other international business courses from which the remaining hours are selected include

ECN 306	Survey of International Economics <i>SB, G*</i> .....	3
	or IBS 306 Survey of International Economics <i>SB, G*</i> (3)	
ECN 331	Alternative Economic Systems <i>SB, G*</i> .....	3
ECN 360	Economic Development <i>SB, G*</i> .....	3
ECN 365	Economics of Russia and Eastern Europe <i>SB, G*</i> .....	3
ECN 436	International Trade Theory <i>SB, G*</i> .....	3
ECN 438	International Monetary Economics <i>SB, G*</i> .....	3
FIN 456	International Financial Management <i>G*</i> .....	3
IBS 300	Principles of International Business <i>G*</i> .....	3
IBS 394	ST: Economics of Latin America .....	3
IBS 394	ST: Regional Business Environment of Southeast Asia .....	3
	or IBS 494 ST: Regional Business Environment of Southeast Asia (3)	

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

IBS 400 Cultural Factors in International Business C, G* .....	3
or MGT 400: Cultural Factors in International Business C, G (3)	
IBS 484 International Business Internship.....	3
IBS 493 International Honors Thesis L*.....	3
IBS 499 Individualized Instruction of International Business .....	3
MGT 459 International Management G .....	3
or IBS 459: International Management G (3)	
MGT 494 ST: Applied International Management.....	3
MKT 394 ST: Global Markets .....	3
MKT 435 International Marketing .....	3
MKT 494 ST: Applied International Marketing .....	3
SCM 463 Global Supply Chain Management.....	3

\* W. P. Carey School of Business students may not use this course to fulfill the 60 semester hours in school degree requirements.

Honors students who select an international business topic for their thesis may use that as part of the 9 hours of international business course work for the certificate.

**Global and Area Studies.** The global and areas studies requirement can be satisfied either by means of course work or through participation in programs the W. P. Carey School of Business has with foreign schools of business, or by some combination of the two. The course work option requires at least nine semester hours of approved credits in international and area studies.

The W. P. Carey School of Business has academic agreements with universities in the United Kingdom, the Netherlands, Austria, Mexico, Spain, Chile, Argentina, France, Italy, Germany, the Czech Republic, Ireland, Turkey, Hong Kong, and Singapore. Students who participate and are successful in one of these approved programs abroad for one semester are deemed to have fulfilled the global and area studies requirements of the Certificate in International Business. Students who participate in a W. P. Carey School of Business seminar of at least a six-week duration or in an approved internship abroad of at least eight weeks satisfy six of the nine semester hours.

The requirements for the international business studies concentration in the Bachelor of Interdisciplinary Studies degree are slightly different from those for the certificate. For more information, call 480/965-0596.

**Foreign Language.** Evidence of competency in a foreign language equivalent to one year of college study is required.

**Additional Requirements.** Applicants for the Certificate in International Business must earn a "C" (2.00) or higher in each of the courses selected for the certificate, have at least a 2.50 GPA for all course work applied to the certificate, and have completed all of the business course work at the Tempe campus.

**Advising.** When planning and selecting courses to meet the requirements for the certificate and to take advantage of opportunities for participation in exchanges with foreign schools of business, students should consult with an international business faculty advisor or the coordinator of international programs, in BA 109. For more information, call 480/965-0596, or access the Web site at [wpcarey.asu.edu/ipo/cfm](http://wpcarey.asu.edu/ipo/cfm).

## BIS CONCENTRATION

A concentration in international business studies is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 124.

## INTERNATIONAL BUSINESS STUDIES (IBS)

**IBS Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

**IBS Note 2.** MAT 210 or 270 with a grade of "C" (2.00) or higher is a prerequisite for all upper-division economics courses except ECN 382 and 384.

### IBS 300 Principles of International Business. (3)

*fall, spring, summer*

Multidisciplinary analysis of international economic and financial environment. Operations of multinational firms and their interaction with home and host societies. See IBS Note 1. Prerequisite: ECN 112. *General Studies: G*

### IBS 306 Survey of International Economics. (3)

*fall and spring*

Survey of international trade issues, commercial policy, trade theory, customs unions, and international monetary topics. Cross-listed as ECN 306. Credit is allowed for only ECN 306 or IBS 306. See IBS Notes 1, 2. Prerequisites: ECN 111, 112.

*General Studies: SB, G*

### IBS 394 Special Topics. (1-4)

*fall and spring*

See IBS Note 1. Topics may include the following:

- Economics of Latin America. (3)
  - Regional Business Environment of Southeast Asia. (3)
- Prerequisites: 2.00 ASU GPA; junior standing.

### IBS 400 Cultural Factors in International Business. (3)

*fall and spring*

Cultural role in international business relations; applied principles of cross-cultural communications, negotiations, and management; regional approaches to business relations. Cross-listed as MGT 400. Credit is allowed for only IBS 400 or MGT 400. See IBS Note 1. Prerequisites: IBS 300, 306 (or ECN 306); MGT 300 (or 320).

*General Studies: C, G*

### IBS 459 International Management. (3)

*fall and spring*

Concepts and practices of multinational and foreign firms. Objectives, strategies, policies, and organizational structures for operating in various environments. Cross-listed as MGT 459. Credit is allowed for only IBS 459 or MGT 459. See IBS Note 1. Prerequisites: IBS 300, 306 (or ECN 306); MGT 300 (or 320 or 380).

*General Studies: G*

### IBS 484 International Business Internship. (3)

*selected semesters*

Academic credit for professional work organized through the internship/international program. See IBS Note 1. Prerequisites: IBS 300 or 306 (or ECN 306); professional program business student; senior; minimum cumulative ASU GPA of 3.40; minimum ASU business GPA of 3.40.

### IBS 493 International Honors Thesis. (3)

*fall and spring*

See IBS Note 1.

*General Studies: L*

**IBS 494 Special Topics. (1–4)***fall and spring*

See IBS Note 1. Topics may include the following:

- Economics of the European Union. (3)
- Regional Business Environment of Southeast Asia. (3)

**IBS 499 Individualized Instruction of International Business. (3)***fall and spring*

See IBS Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

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## Department of Management

wpcarey.asu.edu/mgt

480/965-3431

BA 323

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### William H. Glick, Chair

**Regents' Professor:** Gomez-Mejia

**Professors:** Ashforth, Cannella, Cardy, Glick, Hershauer, Horn, Hoskisson, Keim, Kinicki, Mittelstaedt, Roberson, Tsui

**Associate Professors:** Boyd, Hillman, Keats, Keller, Moorhead, Olivas, Van Hook

**Assistant Professor:** Koka

**Lecturers:** Beer, Davila

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Faculty in the ASU Department of Management are widely recognized for their work in the areas of operations management, organizational behavior, human resource management, and strategic management. The faculty's research and instruction emphasize corporate governance, high-tech management, knowledge management, quality, process and project management, strategic alliances, value chain analysis, global supply operations, globalization, diversity, small business and entrepreneurship, change management, organizational identity, and human resource management practices in their research, consulting, and teaching.

The W. P. Carey School of Business management major ranks 24th in the nation by *U.S. News and World Report* (September 2003). Nominated by deans and senior faculty of business schools around the country, the W. P. Carey BS degree in Management is recognized as one of the best programs in this specialty area.

Students at the undergraduate and graduate levels gain the most current and relevant knowledge of management practice and theory from esteemed faculty who are excellent scholars and teachers. ASU faculty rank first place internationally in the number of leading textbooks in all areas of management. In a recent update of a study originally published in the *Academy of Management Journal* (Dennis, et al., 001), the ASU Department of Management climbed to third place internationally in research performance in top journals, up from 21st place. The department is also ranked

third place internationally in the number of most cited management scholars. Faculty members have also won numerous local and international teaching awards, including citations in the prestigious *Business Week's* listing of the best MBA professors. For more information, access the department's Web site at [wpcarey.asu.edu/mgt](http://wpcarey.asu.edu/mgt).

Department of Management faculty take great pride in their teaching excellence and have been very active in continuing to improve collaborative teaching techniques. Eleven management faculty members and teaching assistants have won recent school, university, and international awards for their excellence in teaching effectiveness.

Department of Management faculty excel at developing the latest materials to facilitate student learning. Teaching awards and student evaluations place faculty among the elite at ASU. Faculty members also have the distinction of publishing more leading textbooks on management topics than faculty at any other university worldwide.

### MANAGEMENT—BS

Business in the 21st century calls for managers who are dynamic leaders and effective team builders. The leaders of companies that are succeeding in the new marketplace possess excellent written and oral communication skills and extensive experience in guiding collaborative teams. After analyzing surveys of students, graduates, and their employers and after many insightful discussions with executives and recruiters, the department concluded that the Management major should have a strong emphasis on collaboration, leadership, communication, team building, and major group projects with the community in not-for-profit and for-profit business settings. The newly revised curriculum begins with the global supply operations course—an immersion in the fundamentals of the global economy, the world of e-business, and collaborative teams. Students are encouraged to concurrently enroll in the introductory courses on collaborative team skills and managing people in organizations during their first semester. Throughout the program, understanding of theory and concepts of management are enhanced by experiencing and testing these concepts in skill-based exercises, case discussions, and team-based project work in the classroom and in the community.

The Management major prepares men and women for managerial leadership in a world characterized by the fast pace of e-business; demands for continuous process improvements to enhance the value chain; growing technological sophistication; racial, cultural, and gender diversity in the workforce; and the need for skills in communicating and working with people, managing projects, and managing change. Graduates with these skills are likely to be recruited by management consulting firms, high-tech firms, service and manufacturing firms, for-profit and not-for-profit organizations, and large and small organizations. These employers recruit Management graduates for challenging trainee

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L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

positions or entry-level management positions and immediately benefit from their preparation.

### Program Requirements

The major in Management consists of the following courses:

MGT 320 Managing People in Organizations.....	3
MGT 410 Responsible Leadership .....	3
MGT 420 Performance Management .....	3
MGT 450 Changing Business Processes <i>L</i> .....	3
MGT 460 Strategic Leadership <i>L</i> .....	3
Management electives*.....	6
Total .....	21

\* Management electives must be selected from the approved list.

All Management majors must complete the following specific courses that fulfill other pre-business or professional program requirements:

ENG 301 Writing for the Professions <i>L</i> .....	3
COM 225 Public Speaking <i>L</i> .....	3
or COM 259 Communication in Business and the Professions <sup>1</sup> (3)	
IBS 300 Principles of International Business <sup>2</sup> <i>G</i> .....	3
MGT 310 Collaborative Team Skills <sup>3</sup> .....	3
Total .....	12

<sup>1</sup> COM 225 is recommended over COM 259. Either is counted in the school communication requirement.

<sup>2</sup> IBS 300 is counted in the business core in place of the international business course.

<sup>3</sup> MGT 310 is counted in place of MGT 300 in the business core.

**Approved Electives for Management.** The following electives have been approved for the management major.

ACC 316 Management Uses of Accounting.....	3
MGT 400 Cultural Factors in International Business <i>C, G</i> .....	3
MGT 440 Small Business and Entrepreneurship.....	3
MGT 445 Business Plan Development.....	3
MGT 459 International Management <i>G</i> .....	3
MGT 484 Management Internship .....	3
MGT 494 Special Topics .....	3
MKT 302 Fundamentals of Marketing Management <i>L</i> .....	3

### Undergraduate Internships in Management.

The Department of Management strongly supports the concept of student internships, believing all students can benefit from the experience. Undergraduate internships in management provide an opportunity for students to gain on-the-job work experience related to their academic preparation and to increase their employment potential at graduation. For more information about the management internship program and the application process, access the department internship Web site at [www.wpcarey.asu.edu/mgt/internships.cfm](http://www.wpcarey.asu.edu/mgt/internships.cfm). Management majors may use a maximum of three semester hours of MGT 484 for the major. Any additional internship credits may be used for nonmanagement electives.

**Certificates.** The Department of Management also strongly supports certification in key areas that strengthen the Management degree and help to differentiate individual students for recruiters. The certificates allow students to gain particular analytical skills related to their education and to increase their employment prospects. These certificates are particularly relevant to students majoring in Management:

1. the Certificate in Dealership Management (see [wpcarey.asu.edu/dealership](http://wpcarey.asu.edu/dealership));
2. the International Business Certificate (see [wpcarey.asu.edu/up/ipo/ibc.cfm](http://wpcarey.asu.edu/up/ipo/ibc.cfm));
3. the Certificate in Quality Analysis (see [wpcarey.asu.edu/up/qa\\_certificate.cfm](http://wpcarey.asu.edu/up/qa_certificate.cfm)); and
4. the Certificate in Small Business and Entrepreneurship (see [wpcarey.asu.edu/up/smallbusiness.cfm](http://wpcarey.asu.edu/up/smallbusiness.cfm)).

**Hot Links to Major in Management.** More information, hot links to courses and faculty, and any updates on the undergraduate major in Management can be found on the Web at [wpcarey.asu.edu/mgt](http://wpcarey.asu.edu/mgt).

### Major Proficiency Requirements

Students must receive grades of “C” (2.00) or better in upper-division courses for the major. If a student receives a grade below “C” (2.00) in any course in the major, the course must be repeated. If a second grade below “C” (2.00) is received in either an upper-division course in the major already taken or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in that major.

### Graduation Requirements

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See “University Graduation Requirements,” page 88, and “School Degree Requirements,” page 170.

## GRADUATE PROGRAMS

The Department of Management participates actively in several master’s and PhD programs, particularly the technology MBA and executive MBA. For a detailed description of these programs, see the *Graduate Catalog*.

The Department of Management has adopted a modular approach to PhD education to improve our ability to deliver focused, high-quality seminars, give students more flexibility in defining their areas of expertise, increase their rate of quality publications, and enhance the quality of PhD placements.

**Hot Links to Graduate Programs.** For additional information, hot links to courses and faculty, and general information about ASU MBA programs, access the Web at [wpcarey.asu.edu/mba](http://wpcarey.asu.edu/mba).

More information, application procedures, hot links to faculty, and any updates on the PhD program in Management can be found on the Web at [wpcarey.asu.edu/mgt/degree/phd](http://wpcarey.asu.edu/mgt/degree/phd).



## MANAGEMENT (MGT)

**MGT Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

**MGT 300 Organizational Management and Leadership. (3)**

*fall, spring, summer*

Analyzes strategic, behavioral, and human resource management perspectives, including principles of strategic management and leadership of human resources. Fee. See MGT Note 1. Prerequisites: a course in psychology (social and behavioral) and a course in sociology. Pre- or corequisite: SCM 300.

**MGT 310 Collaborative Team Skills. (3)**

*fall, spring, summer*

Development of skills in managing and working in collaborative environments. Theories and applications in small group dynamics and team facilitation. Interactive, learner-centered. See MGT Note 1. Prerequisite: professional program business student majoring in Management. Prerequisite for nonmajors: instructor approval. Pre- or corequisites: MGT 320; SCM 300 (recommended as corequisites).

**MGT 320 Managing People in Organizations. (3)**

*fall, spring, summer*

Management processes, fundamentals of business-level strategy, individual difference issues, motivation and leadership of people in organizations. Lecture, discussion, interactive, learner-centered. See MGT Note 1. Prerequisite: professional program business student majoring in Management. Prerequisite for nonmajors: instructor approval. Pre- or corequisites: MGT 310; SCM 300 (recommended as corequisites).

**MGT 380 Management and Strategy for Nonmajors. (3)**

*fall, spring, summer*

Introduces the functions and applications of management in organizations, including controlling, decision making, leadership, motivation, planning, and social responsibility. Not open to business majors. See MGT Note 1. Prerequisites: 2.00 ASU GPA; junior standing.

**MGT 394 Special Topics. (3)**

*selected semesters*

See MGT Note 1.

**MGT 400 Cultural Factors in International Business. (3)**

*fall and spring*

Cultural role in international business relations; applied principles of cross-cultural communications, negotiations, and management; regional approaches to business relations. Cross-listed as IBS 400. Credit is allowed for only IBS 400 or MGT 400. See MGT Note 1. Prerequisites: IBS 300, 306 (or ECN 306); MGT 300 (or 320).

*General Studies: C, G*

**MGT 410 Responsible Leadership. (3)**

*fall, spring, summer*

Values, core beliefs, legal and ethical mandates and cultural norms as they apply to the conduct of organizations; application through a Service Learning project. Interactive, learner-centered. See MGT Note 1. Prerequisites: MGT 310, 320.

**MGT 420 Performance Management. (3)**

*fall, spring, summer*

Development of skills and knowledge to lead associates effectively: hiring, developing, evaluating, retaining, and rewarding employees. Preparation for leadership roles. Lecture, discussion, interactive, learner-centered. See MGT Note 1. Prerequisites: MGT 310, 320.

**MGT 440 Small Business and Entrepreneurship. (3)**

*fall and spring*

Opportunities, risks, and problems associated with small business development and operation. See MGT Note 1.

**MGT 445 Business Plan Development. (3)**

*fall and spring*

Develops a complete strategic business plan emphasizing the planning process undertaken by successful small business owners and entrepreneurs. Lecture, discussion, experiential exercise. See MGT Note 1. Prerequisite: MGT 440.

**MGT 450 Changing Business Processes. (3)**

*fall and spring*

Describes and analyzes business processes. Generates and evaluates alternatives. Creates improvement and implementation plans. Fee. See MGT Note 1. Prerequisite: completion of 100 hours, including all business administration core requirements. Pre- or corequisite: FIN 461 or MGT 460 or MKT 460 or SCM 479 or any other recommended business integrative course.

*General Studies: L*

**MGT 459 International Management. (3)**

*fall and spring*

Concepts and practices of multinational and foreign firms. Objectives, strategies, policies, and organizational structures for operating in various environments. Cross-listed as IBS 459. Credit is allowed for only IBS 459 or MGT 459. See MGT Note 1. Prerequisites: IBS 300, 306 (or ECN 306); MGT 300 (or 320 or 380).

*General Studies: G*

**MGT 460 Strategic Leadership. (3)**

*fall, spring, summer*

Systems theory of organizations, strategy formulation and administration in organizations, creating organizational cohesiveness, and leading change within organizations. Lecture, cases, exercises. See MGT Note 1. Prerequisites: MGT 410, 420; completion of 100 hours, including all business administration core requirements. Pre- or corequisite: MGT 450 (recommended as corequisite).

*General Studies: L*

**MGT 484 Management Internship. (3)**

*fall and spring*

Internships are strongly recommended to improve employment potential. The Department of Management internship coordinator must approve all internships to receive credit. See MGT Note 1.

**MGT 494 Special Topics. (1–4)**

*selected semesters*

Current topics in management, primarily designed for business majors. See the *Schedule of Classes* for current offerings of courses. Topics may include the following:

- Applied International Management. (3)
- Cultural Factors in International Business. (3)  
Prerequisite: IBS 300 (or 494 ST: International Management) or MGT 300 (or 459).
- Dealership Management. (3)
- Strategic Management. (3)

**MGT 499 Individualized Instruction. (1–3)**

*selected semesters*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## Department of Marketing

wpcarey.asu.edu/mkt

480/965-3621

BAC 460

Michael P. Mokwa, Chair

**Professors:** Bitner, Bolton, Brown, Hutt, Jackson, Kumar, Lastovicka, Mokwa, Nowlis, L. Ostrom, Reingen, Walker, Ward

**Associate Professors:** Blasko, A. Ostrom, Sinha, Stephens

**Assistant Professors:** Jarvis, Mandel

**Senior Lecturer:** Spiers

**Lecturer:** Kahler

Study in the field of marketing involves analysis of how organizations plan, organize, deploy, and control their resources to achieve market objectives. Focus is placed on market forces, growth, and the deployment of firms in competitive markets and on the marketing strategy and tactics of the firm. Through the proper selection of courses, a student may prepare for a career in

1. selling and sales management;
2. services and retail marketing;
3. promotion and advertising management;
4. business to business marketing;
5. international marketing;
6. market research and planning;
7. general marketing management; or
8. retail management.

### MARKETING—BS

The major in Marketing consists of 18 semester hours. The following courses must be included:

MKT 302 Fundamentals of Marketing Management L	3
MKT 304 Consumer Behavior	3
MKT 451 Marketing Research L	3
MKT 460 Strategic Marketing	3
<b>Total</b>	<b>12</b>

To complete the major, students, in consultation with their faculty advisors, select six additional hours from among the following list of courses:

MKT 301 Principles of Advertising	3
MKT 310 Principles of Selling	3
MKT 411 Sales Management	3
MKT 412 Promotion Management	3
MKT 424 Retail Management	3
MKT 430 Marketing for Service Industries	3
MKT 434 Business-to-Business Marketing	3
MKT 435 International Marketing	3

MKT 484 Internship	3
MKT 494 Special Topics	1-4
MKT 499 Individualized Instruction	1-3

### Major Proficiency Requirements

Students must receive grades of "C" (2.00) or higher in upper-division courses for the major. If a student receives a grade below "C" (2.00) in any course in the major, this course must be repeated. If a second grade below "C" (2.00) is received in either an upper-division course in the major already taken or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in the major.

### GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

### GRADUATE PROGRAMS

The department offers a distinctive MBA curriculum in services marketing and management. For more information, see the *Graduate Catalog*.

### MARKETING (MKT)

**MKT Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

#### MKT 300 Principles of Marketing. (3)

*fall, spring, summer*

Role and process of marketing within the society, economy, and business organization. See MKT Note 1. Prerequisite: ECN 112. Pre- or corequisite: SCM 300.

#### MKT 301 Principles of Advertising. (3)

*fall, spring, summer*

Advertising as a communications tool in marketing and business management. Survey of market segmentation, creative strategy, media, and effectiveness measures. See MKT Note 1. Prerequisite: MKT 300.

#### MKT 302 Fundamentals of Marketing Management. (3)

*fall, spring, summer*

Marketing planning, implementation, and control by organizations, with special emphasis on identifying market opportunities and developing marketing programs. See MKT Note 1. Prerequisite: MKT 300.

*General Studies: L*

#### MKT 304 Consumer Behavior. (3)

*fall, spring, summer*

Applies behavioral concepts in the analysis of consumer behavior and the use of behavioral analysis in marketing strategy formulation. See MKT Note 1. Prerequisite: MKT 300.

#### MKT 310 Principles of Selling. (3)

*once a year*

Basic principles underlying the selling process and their practical application in the sale of industrial goods, consumer goods, and intangibles. See MKT Note 1. Prerequisite: MKT 300.

#### MKT 382 Advertising and Marketing Communication. (3)

*fall and spring*

Introduction for nonbusiness majors to the communication process within marketing and advertising. Creation and presentation of an ad campaign. Not open to business majors. See MKT Note 1. Prerequisites: junior or senior standing; 2.00 ASU GPA.

**MKT 394 Special Topics. (1–4)**

*fall*

Not open to Marketing majors. See MKT Note 1. Topics may include the following:

- Applied International Marketing. (1–3)
- Global Markets. (3)
- Marketing and Selling. (3)

**MKT 411 Sales Management. (3)**

*once a year*

Applies management concepts to the administration of the sales operation. See MKT Note 1. Prerequisite: MKT 302.

**MKT 412 Promotion Management. (3)**

*once a year*

Integrates the promotional activities of the firm, including advertising, personal selling, public relations, and sales promotion. See MKT Note 1. Prerequisite: MKT 302.

**MKT 424 Retail Management. (3)**

*selected semesters*

Role of retailing in marketing. Problems and functions of retail managers within various retail institutions. See MKT Note 1. Prerequisite: MKT 300.

**MKT 430 Marketing for Service Industries. (3)**

*once a year*

Concepts and strategies for addressing distinctive marketing problems and opportunities in service industries. Current issues and trends in the service sector. See MKT Note 1. Prerequisites: MKT 300, professional program business student.

**MKT 434 Business-to-Business Marketing. (3)**

*once a year*

Strategies for marketing products and services to commercial, institutional, and governmental markets. Changing industry and market structures. See MKT Note 1. Prerequisite: MKT 302 or instructor approval.

**MKT 435 International Marketing. (3)**

*once a year*

Analyzes marketing strategies developed by international firms to enter foreign markets and to adapt to changing international environments. See MKT Note 1. Prerequisites: MKT 302 (or instructor approval); professional program business student.

**MKT 451 Marketing Research. (3)**

*fall, spring, summer*

Integrated treatment of methods of market research and analysis of market factors affecting decisions in the organization. See MKT Note 1. Prerequisites with a grade of "C" (2.00) or higher: MKT 302; QBA 221.

*General Studies: L*

**MKT 460 Strategic Marketing. (3)**

*fall, spring, summer*

Policy formulation and decision making by the marketing executive. Integrates marketing programs and considers contemporary marketing issues. Prerequisite: professional program business student. See MKT Note 1. Prerequisites with a grade of "C" (2.00) or higher: MKT 302, 304, 451.

**MKT 484 Internship. (3)**

*fall, spring, summer*

See MKT Note 1. Prerequisite with a grade of "B" (3.00) or higher: MKT 302.

**MKT 494 Special Topics. (1–4)**

*fall, spring, summer*

Chosen from topics in the marketing and international marketing arenas to include seminars in international marketing in Europe and Asia. See MKT Note 1. Topics may include the following:

- Applied International Marketing
- Dealership Management

**MKT 499 Individualized Instruction. (1–3)**

*fall, spring, summer*

Topics of special interest chosen by students and agreed to by the departments to do independent studies with a professor acting as a guide. See MKT Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

## Department of Supply Chain Management

[wpcarey.asu.edu/scm](http://wpcarey.asu.edu/scm)

480/965-6044

BA 446

Joseph R. Carter, Chair

**Professors:** J. Carter, P. Carter, Choi, Dooley, Ellram, Guntermann, Jennings, Kirkwood, Pearson, V. Smith-Daniels

**Associate Professors:** Brooks, Callarman, Davis, Keefer, Krause, Lock, Maltz, Rungtusanatham, Siferd, D. Smith-Daniels, Verdini

**Assistant Professors:** Barratt, Petersen, Rabinovich

**Research Professor:** Monczka

**Senior Lecturer:** Brown, Koretz, Langdon

The faculty in the Department of Supply Chain Management offer courses in two separate areas: legal and ethical studies and supply chain management.

### Legal and Ethical Studies

The legal and ethical studies faculty offer the undergraduate and the Master of Business Administration core requirements in legal and ethical studies. In addition, the faculty offer specialized courses in law and ethics relating to health care, insurance, real estate, and professional sports.

### SUPPLY CHAIN MANAGEMENT—BS

A "supply chain" consists of all of the entities necessary to transform ideas into delivered products and services. Supply chain management directs and transforms a firm's resources in order to design, purchase, produce, and deliver high-quality goods and services. As goods and services flow from supplier to producer to customer to final user, supply chain management is particularly concerned with the interfaces between organizations. One way to view supply chain management is as managing linkages between organizations.

The competitive and global nature of today's business environment dictates that this direction and transformation

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## W. P. CAREY SCHOOL OF BUSINESS

take place in a way that is as efficient and effective as possible. Continuing emphases on time, cost, and quality improvements have sharpened the need to coordinate and cooperate with trading partners around the world to achieve results that allow customers to be successful. Thus, supply chain management focuses on the integration of activities across several companies to manage the flow of products, services, people, equipment, facilities, and other resources. Supply chain management is also concerned with recycling, reuse, and final disposal of products.

The major in Supply Chain Management consists of the following courses:

SCM 345 Logistics Management .....	3
SCM 355 Supply Management .....	3
SCM 432 Planning and Control Systems for Supply Chain Management L .....	3
SCM 440 Quality Management and Measurement .....	3
SCM 455 Research and Negotiation .....	3
SCM 479 Supply Chain Strategy .....	3
Total .....	18

### MAJOR PROFICIENCY REQUIREMENTS

Students must receive grades of "C" (2.00) or higher in upper-division courses for the major. If a student receives a grade below "C" (2.00) in any course in the major, this course must be repeated. If a second grade below "C" (2.00) is received in either an upper-division course in the major already taken or in a different upper-division course in the major, the student is no longer eligible to take additional upper-division courses in that major.

### GRADUATION REQUIREMENTS

In addition to fulfilling major requirements, students seeking a degree must meet all university and school requirements. See "University Graduation Requirements," page 88, and "School Degree Requirements," page 170.

### BUSINESS (BUS)

**BUS 301 Fundamentals of Management Communication.** p(3)  
*fall, spring, summer*  
Written and oral communication in a management context.  
Prerequisite: CIS 200. Prerequisite with a grade of "C" or higher: ENG 102.  
*General Studies: L*

**BUS 451 Business Research Methods.** (3)  
*selected semesters*  
Methods of collecting information pertinent to business problem solving, including design, collection, analysis, interpretation, and presentation of primary and secondary data.  
*General Studies: L*

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

### LEGAL AND ETHICAL STUDIES (LES)

**LES Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

**LES 305 Legal, Ethical, and Regulatory Issues in Business.** (3)  
*fall, spring, summer*  
Legal theories, ethical issues, and regulatory climate affecting business policies and decisions. Lecture. Web-based delivery. See LES Note 1.

**LES 308 Business and Legal Issues in Professional Sports.** (3)  
*selected semesters*  
Economic structure of professional sports and application of contract, antitrust, arbitration, and labor laws in the industry. See LES Note 1. Prerequisites: 2.00 GPA; junior standing.

**LES 380 Consumer Perspective of Business Law.** (3)  
*fall and spring*  
Role of law as it affects society. Uses case studies to present principles that govern business and consumers. Lecture, television. See LES Note 1. Prerequisites: 2.00 GPA; junior standing.

**LES 411 Real Estate Law.** (3)  
*once a year*  
Legal and ethical aspects of land ownerships, interests, transfer, finance development, and regulations of the real estate industry. See LES Note 1.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

### SUPPLY CHAIN MANAGEMENT (SCM)

**SCM Note 1.** In addition to individual course prerequisites, nonbusiness students must have at least a 2.50 ASU cumulative GPA, a 2.50 ASU business GPA, and 56 earned semester hours to register for any upper-division business course unless otherwise noted.

**SCM 300 Global Supply Operations.** (3)  
*fall, spring, summer*  
Resources and information to create and deliver products globally. Interfirm systems and industry supply chains. Customer, producer, and employee perspectives. Lecture, discussion. Fee. See SCM Note 1. Prerequisites: ACC 240; CIS 200; QBA 221.

**SCM 301 Supply Chain Management.** (3)  
*selected semesters*  
Examines the purchasing, materials, and logistics management areas. Presents techniques for acquiring, storing, processing, and moving material inventory. See SCM Note 1. Prerequisite: professional program business student.

**SCM 345 Logistics Management.** (3)  
*fall and spring*  
Logistics and supply chain activities emphasizing integration of transportation, inventory, warehousing, facility location, customer service, packaging, and materials handling. See SCM Note 1. Prerequisite: professional program business student majoring in Supply Chain Management. Pre- or corequisite: SCM 300.

**SCM 355 Supply Management.** (3)  
*fall and spring*  
Management of the supply function, including organization, procedures, supplier selection, quality, inventory decisions, and price determination. Fee. See SCM Note 1. Prerequisites: SCM 300; professional program business student majoring in Supply Chain Management.



Edward C. Prescott received the 2004 Nobel Prize in Economics. Prescott is the W. P. Carey School of Business chair in economics.

Tim Trumble photo

**SCM 405 Urban Transportation. (3)**

*selected semesters*

Economic, social, political, and business aspects of passenger transportation. Public policy and government aid to urban transportation development. See SCM Note 1. Prerequisites: both SCM 345 and upper-division standing or only instructor approval.

**SCM 432 Planning and Control Systems for Supply Chain Management. (3)**

*fall and spring*

Planning and control systems for product and service flows in supply chain: production planning, master scheduling, MRP, ERP, inventory management. Lab. Fee. See SCM Note 1. Prerequisites: SCM 300, 345; professional program business student majoring in Supply Chain Management. Pre- or corequisite: SCM 355.

*General Studies: L*

**SCM 440 Quality Management and Measurement. (3)**

*fall and spring*

Quality management and measurement, relationships with suppliers and customers, quality awards, certifications, programs, tools for process improvement and cost analyses. See SCM Note 1. Prerequisites: SCM 300; professional program business student majoring in Supply Chain Management. Pre- or corequisites: SCM 345, 355.

**SCM 455 Research and Negotiation. (3)**

*fall and spring*

Current philosophy, methods, techniques for conducting strategic and tactical supply chain research and negotiations. Includes supplier price and cost analysis. See SCM Note 1. Prerequisite: professional program business student majoring in Supply Chain Management. Prerequisite with a grade of "C" (2.00) or higher: SCM 355.

**SCM 460 Carrier Management. (3)**

*selected semesters*

Analyzes carrier economics, regulation, management, and rate-making practice; evaluates public policy issues related to carrier transportation. See SCM Note 1. Prerequisites: both SCM 345 and upper-division standing or only instructor approval.

**SCM 463 Global Supply Chain Management. (3)**

*once a year*

Supply chain activities in international business with special emphasis on management of transportation, global sourcing, customs issues, and facility location in a global environment. See SCM Note 1. Prerequisite: upper-division standing.

**SCM 479 Supply Chain Strategy. (3)**

*fall and spring*

Integrated supply chain strategies synthesizing supply management, production, logistics, and enterprise systems. Provides a comprehensive perspective of supply chain management. See SCM Note 1. Prerequisite: professional program business student majoring in Supply Chain Management. Prerequisites with a grade of "C" (2.00) or higher: SCM 345, 355, 432.

**Omnibus Courses.** For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Graduate-Level Courses.** For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access [www.asu.edu/aad/catalogs](http://www.asu.edu/aad/catalogs) on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

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# College of Education

coe.asu.edu

Eugene E. Garcia, PhD, Vice President  
for University-School Partnerships and Dean

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<b>Division of Curriculum and Instruction . . . . .</b>	<b>206</b>
<b>Division of Educational Leadership and Policy Studies . . . . .</b>	<b>211</b>
<b>Division of Psychology in Education . . . . .</b>	<b>212</b>

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## PURPOSE

For students, choosing a professional college is an important step because it establishes the foundation on which a career will be built. The College of Education provides a stimulating, challenging forum wherein scholars and practitioners interact in the discovery and mastery of the science and art of educational endeavors. This balanced approach, in which research and practice are viewed as essential and complementary, enables the college to produce superior educators.

The purposes of the faculty of the College of Education are as follows:

1. to engage in the scholarly, scientific, and professional study of education;
2. to prepare competent professionals who will serve in a variety of critical educational roles;
3. to develop productive scholars who will make significant contributions to the educational literature and to the quality of educational practice; and
4. to serve the education profession at the local, national, and international levels.

In accord with these purposes, the College of Education is committed to producing quality scholarship and research and to excellence in teaching.

Information about the college can be found on the Web at [coe.asu.edu](http://coe.asu.edu).

## ORGANIZATION

The College of Education is organized into three divisions. These divisions and their academic program areas are listed below.

### Division of Curriculum and Instruction

The Initial Teacher Certification program is the largest program in the college, designed to prepare students for teaching positions in bilingual education, early childhood education, elementary education, English as a second language, secondary education, and special education. The program is a blend of on-campus and school-based methods courses. All programs involve professional school-based

internships with experienced teachers. For specific program descriptions, see "Degrees," page 195.

### Division of Educational Leadership and Policy Studies

Educational Administration and Supervision  
Educational Policy Studies  
Higher and Postsecondary Education  
Social and Philosophical Foundations

### Division of Psychology in Education

Counseling  
Counseling Psychology  
Counselor Education  
Educational Psychology  
Learning  
Lifespan Developmental Psychology  
Measurement, Statistics, and Methodological  
Studies  
School Psychology  
Educational Technology

In addition to divisions, administrative units and centers provide services to students and the community. These administrative units and centers are listed below.

**Beginning Educator Support Team.** Beginning Educator Support Team (BEST) is a quality research-based comprehensive teacher induction and mentoring program that promotes professional growth and development for the ultimate support of student learning. BEST partners with school districts and with individual teachers to provide support in strengthening effective teaching practices and aligning practice to the teaching standards. BEST includes four program components: BEST for Beginning Teachers, BEST Visitation Coaching, BEST Standards in Teaching and BEST for Mentor Teachers. For more information, call 480/965-4339, send e-mail to [best@asu.edu](mailto:best@asu.edu), or access the Web site at [coe.asu.edu/oss/best](http://coe.asu.edu/oss/best).

**Bureau of Educational Research and Services.** The Bureau of Educational Research and Services (BERS) is a liaison unit of the ASU College of Education. BERS is dedicated to fostering and connecting the human and material resources of the college to the needs in the field of education. BERS engages in information dissemination and service about transforming education and the roles of learners and leaders. BERS provides professional development opportunities, seminars for superintendents, roundtable discussion groups, conference and meeting planning, consulting services, and executive search services. For more

information, call 480/965-3538, or access the Web site at [bers.asu.edu](http://bers.asu.edu). BERS is located in ED 140.

**Center for Indian Education.** The Center for Indian Education serves as a service agency to Native American communities, school districts, and students attending ASU. The center also conducts research on Indian education in Arizona and other states with American Indian populations. For more information, call 480/965-6292, or access the Web site at [coe.asu.edu/cie](http://coe.asu.edu/cie).

**Counselor Training Center.** The Counselor Training Center provides counseling for ASU students, staff, and the community at large regarding personal, relationship, and career development issues. Counseling is conducted by graduate students in counseling and counseling psychology under the supervision of licensed psychologists. For more information, call 480/965-5067, or access the Web site at [coe.asu.edu/ctc](http://coe.asu.edu/ctc).

**Education Policy Studies Laboratory.** Located within the College of Education, the Education Policy Studies Laboratory (EPSL) conducts and coordinates original research in areas such as student performance standards, assessment, commercialism in schools, curriculum, and language policy issues. EPSL disseminates its analyses and reports to policy makers, educators, media, and the public. It provides high-quality research through three specialized units—the Commercialism in Education Research Unit, the Education Policy Research Unit, and Language Policy Research Unit; an initiative—the Arizona Education Policy Initiative; and an online, peer-reviewed, academic journal—the Education Policy Analysis Archives.

For more information, visit EDB L1-01, call 480/965-1886, or access the lab's Web site at [asu.edu/educ/epsl](http://asu.edu/educ/epsl).

**Office of Professional Field Experiences.** Part of the Division of Curriculum and Instruction, the Office of Professional Field Experiences places all teacher preparation students in public schools and similar institutions for internships and student teaching. This office monitors students' progress in their field experiences, provides assistance for pre-service teachers who need intervention to improve performance, sponsors courses for mentor teachers, and conducts research on student teacher performance in the field. For more information, call 480/965-6255, or access the Web site at [coe.asu.edu/pfe](http://coe.asu.edu/pfe).

**Office of Student Services.** The Office of Student Services (OSS) is committed to providing a quality, service-oriented environment to promote the development and growth of the education community. The OSS assists undergraduate and postbaccalaureate students interested in entering and completing a teacher preparation program. Services offered by the OSS include high school outreach and recruitment, community college articulation and recruitment, a living and learning community in Manzanita Hall, academic advising, Initial Teacher Certification professional program admissions and retention, scholarships and financial aid, teacher placement, and certification assistance. Students should contact the OSS with questions regarding Declaration of Graduation, program agreements, student petitions, and the Arizona Educators Proficiency Assessment (AEPA) exam.

For more information about services, or to schedule an appointment with an advisor, call 480/965-5555, or access the Web site at [coe.asu.edu/oss](http://coe.asu.edu/oss).

**Southwest Center for Education Equity and Language Diversity.** This center, located in ED 440, conducts, supports, and promotes research, scholarship, and innovative practice in the linguistic education of minority students in public schools. The center's primary focus is on equity aspects of education in Arizona, especially as they relate to nonnative English-speaking children and youth. Research, scholarly discourse, and program development activities, aimed at improving language education for minority students in public schools, serve the purpose of informing public policy in Arizona and the larger U.S. Southwest region. For more information, call 480/965-7134, or access the Web site at [asu.edu/educ/sceed](http://asu.edu/educ/sceed).

**Other Units.** Other units within the college offering specialized research and educational services include the College of Education Preschool and Technology-Based Learning and Research. For more information about the preschool, call 480/965-2510, or access the Web site at [asu.edu/educ/preschool](http://asu.edu/educ/preschool). For more information about Technology-Based Learning and Research, call 480/965-3322, or access the Web site at [tblr.ed.asu.edu](http://tblr.ed.asu.edu).

## TEACHER EDUCATION

Programs that prepare students for teacher certification by the state are available to both the undergraduate pursuing a first degree and the individual with a college degree in a noneducation field (postbaccalaureate).

Undergraduate students interested in teacher certification in art, music, or dance enroll through programs offered by the Katherine K. Herberger College of Fine Arts. These students must also meet the same eligibility requirements for admission to the Initial Teacher Certification (ITC) program for certification, and a formal application must be submitted to the ITC program. For more information, see "Initial Teacher Certification Professional Program Admission," page 194.

Undergraduate programs leading to the Bachelor of Arts in Education degree are described in the text that follows. Information about postbaccalaureate certification programs can be obtained by either visiting the Office of Student Services, EDB L1-13, or by accessing the Web site at [coe.asu.edu/oss](http://coe.asu.edu/oss). For descriptions of graduate degree programs, see the *Graduate Catalog*. For more information, see the "College of Education Graduate Degrees and Majors," page 204.

## ADMISSION

### Preprofessional Admission

All newly admitted students to the ASU College of Education are admitted as preprofessional education majors. Preprofessional students are advised by a team of academic

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.



## COLLEGE OF EDUCATION

advisors whose primary focus is on preparing students for admission into the Initial Teacher Certification (ITC) program during their junior year. Admission to ASU with pre-professional status in the College of Education does not guarantee admission to the ITC program. Admission to the ITC is a separate, competitive process. Preprofessional students are strongly encouraged to meet each semester with the preprofessional team of advisors to ensure proper progression through their chosen major. It is crucial that all applicants seeking application to the ITC program gain valuable experience with the population of students they intend to teach; the Office of Student Services can provide information on various opportunities to gain such experience. To schedule an appointment with a preprofessional advisor, call 480/965-5555.

### Initial Teacher Certification Professional Program Admission

Undergraduate students are eligible for admission consideration into the Initial Teacher Certification (ITC) program if they meet the following criteria:

1. admission to the Tempe campus as a degree-seeking student. Application information is available at [www.asu.edu/admissions](http://www.asu.edu/admissions). Students planning to begin the ITC program in the spring should submit ASU admission materials in May. Students planning to begin the ITC program in the fall should submit admission materials in October;
2. a minimum 2.50 cumulative GPA (ASU GPA and transfer GPA combined) (verified one month before program start date);
3. a minimum 2.50 cumulative ASU GPA by the time the student begins the ITC program (verified one month before program start date);
4. completion of at least 56 semester hours (verified one month before program start date);
5. in progress or completion of the following prerequisites: ENG 101 and 102, the Mathematics (MA) requirement, and the Literacy and Critical Inquiry (L) requirement or the Natural Science (SQ or SG) requirement. Proof of in-progress course work (transcripts) must be submitted within the student's ITC Application Portfolio. The above courses must be completed with grades of "C" (2.00) or higher by the time the student begins the ITC program (verified one month before program start date). For more information regarding courses that satisfy these requirements, consult with an Office of Student Services (OSS) advisor. Students from out-of-state institutions or students from outside of the Arizona public community college and university system need to have course equivalency approval before submitting an application;
6. demonstration of experience with children/adolescents. Individuals who wish to become teachers need to have demonstrated a commitment to working with children in a way that helps children/adolescents learn a new skill, acquire knowledge, reinforce concepts, or expand their talents. The applicant's interactions with children/adolescents need to be observed

by a supervisor and referred to in the letters of recommendation; and

7. formal application to the ITC program made by February 1 for fall admission or September 1 for spring admission.

*Note:* Secondary Education students must complete a portion of their academic specialization before submitting application materials. See an advisor for more details.

Admission is a selective, competitive process and is not guaranteed to all that satisfy the minimum admission requirements. The ITC application is available online at [coe.asu.edu/oss/admission](http://coe.asu.edu/oss/admission) before application deadlines.

Some ITC programs have additional admission requirements; consequently, students should consult with an OSS academic advisor as they prepare to apply to the ITC program of their choice, to verify what additional requirements must be met. Students may also attend an Initial Advising Session (IAS), offered through the OSS, to learn more about the ITC application and admission process. To schedule an IAS appointment, call the OSS at 480/965-5555.

### Application Deadlines

The College of Education has three admission cycles. Priority application deadlines for most ITC programs are February 1 for fall admission and September 1 for spring admission. An additional application deadline of June 1 applies to students seeking spring admission to the Apprentice Teacher Program (ATP) or fall admission to the Integrated Certification in Teacher Education (INCITE) and the Teacher Education and Certification Highway + Master in Education option (TEACH+ME) postbaccalaureate programs. Spring admission to INCITE follows the regular September 1 deadline. For the most updated admission dates, access the ITC admission Web site at [coe.asu.edu/oss/admission](http://coe.asu.edu/oss/admission).

### Transfer Students

To be considered for admission to the ITC program, transfer students must first be formally admitted to ASU. For more information, see "Transfer Students or Readmission Students," page 66.

*Note:* Once students receive notification of ASU admission, all education transfer students must attend an Initial Advising Session (IAS) as their first step in securing academic advising from the college. These sessions are conducted by academic advisors and are provided in groups according to the student's desired degree program (early childhood, elementary, secondary, special education, multi-lingual/multicultural). During the IAS, students are given an overview of the various ITC programs available, application requirements are discussed, and individualized degree audits (through the Degree Audits Reporting System) are provided to each student. Course selection, degree requirements, and general education requirements are also covered during these sessions. To sign up for an IAS, call the Office of Student Services at 480/965-5555. ASU Undergraduate Admissions should receive the application for admission to ASU, transcripts, and other required information at least five months before the ITC application deadline for the desired ITC admission semester.

Students who are considering transferring to ASU and the College of Education, who are not yet committed to ASU as their school of choice, may schedule an appointment with the transfer recruitment specialist by calling 480/965-5555.

Transfer students from Arizona institutions should access the ASU Education Transfer guides for optimal course selection on the Web at [asu.edu/provost/articulation](http://asu.edu/provost/articulation).

### Postbaccalaureate Students

Postbaccalaureate programs prepare students for certification by the state and are designed for those students who hold a bachelor's degree in an area other than education. The college offers postbaccalaureate programs in early childhood education, elementary education, multilingual/multicultural education, secondary education, and special education. Information on postbaccalaureate programs is available through the Office of Student Services, EDB L1-13 (480/965-5555). The office provides academic advising and information regarding requirements, procedures, and deadline dates.

A student who wishes to be considered for admission to the ITC program must meet the following College of Education admission requirements for postbaccalaureate programs:

1. be admitted to ASU as a nondegree seeking graduate student;
2. have earned a bachelor's degree from an accredited institution;
3. possess a junior/senior cumulative GPA of 2.50 or higher on a 4.00 scale; and
4. have submitted a completed application form and supporting materials by the appropriate deadline dates during the semester before admission.

*Note:* Students in the secondary education program must complete academic specialization requirements. Visit the Office of Student Services, EDB L1-13, for this form. INCITE applicants must submit passing scores on the Arizona Educator Proficiency Assessment subject knowledge portion at time of application.

Admission is competitive and not guaranteed to all who satisfy the minimum admission criteria.

Some academic units have additional requirements. Students seeking admission to ITC programs should consult the Office of Student Services in the College of Education (480/965-5555) to determine if there are additional admission requirements for their teaching fields.

Information on deadline dates and applications can be downloaded via the Web at [coe.asu.edu/oss/admission](http://coe.asu.edu/oss/admission).

### ADVISING

All new students are required to meet with an academic advisor before registering for their first semester. To further assist and support freshmen in their first year, these students are also required to meet with an advisor before registering for their second semester. Each fall, freshmen are notified of "Welcome Week." Freshmen should take advantage of this time to meet with their advisors. This is an opportunity to consult with advisors regarding academic difficulties, avenues for student involvement in campus activities, and preparation of spring schedules.

To schedule an appointment with an advisor, call 480/965-5555.

### DEGREES

#### Bachelor of Arts in Education

The College of Education offers five Bachelor of Arts in Education (BAE) degree programs. See the "College of Education Baccalaureate Degrees and Majors" table, page 196, for more information on these degrees and their concentrations. Candidates for the BAE degree must complete the Initial Teacher Certification program in their major as offered by the College of Education. Graduates of this program demonstrate proficiency in specified knowledge areas or skills, including the following:

1. principles and application of effective instruction;
2. classroom organization and management;
3. content or subject matter;
4. specific curriculum and teaching strategies;
5. interrelationship of culture and schooling in a multicultural society;
6. human development;
7. communication skills;
8. theories of learning and motivation;
9. assessment and evaluation; and
10. computer literacy.

#### Initial Teacher Certification Programs

The Initial Teacher Certification (ITC) program is the largest program in the College of Education. It consists of the following areas of academic study: early childhood education, elementary education, secondary education, multilingual/multicultural education, and special education. Within these five degree areas, multiple teacher education programs exist in order to meet the diverse interests and circumstances of students. Students apply to one of the 11 various ITC programs, based on their unique interests and needs. The ITC programs offered through the college are as follows:

1. Apprentice Teacher Program (ATP) (K-8);
2. Diné Teacher Education Program (DTEP) (K-8);
3. Early Childhood Interprofessional Program (ECD) (K-8: birth-third grade emphasis);
4. Elementary Education Partnership Program (EEPP) (K-8);
5. Indigenous Teacher Preparation Program (ITP);
6. Integrated Certification in Teacher Education (INCITE) (secondary education—postbaccalaureate only);
7. Multilingual/Multicultural Education Program (MLMC) (K-8);
8. Secondary Education (SED) (7-12);
9. Special Education (SPE) (K-12);

**L** literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SO** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 92.

## COLLEGE OF EDUCATION

### College of Education Baccalaureate Degrees and Majors

Major	Degree	Concentration <sup>1</sup>	Administered By
Early Childhood Education	BAE	—	Division of Curriculum and Instruction
Elementary Education	BAE	Optional: indigenous teacher preparation program or multilingual/multicultural education <sup>1</sup>	Division of Curriculum and Instruction
Secondary Education	BAE	Academic specializations: biological sciences, business, chemistry, Chicana/Chicano Studies, <sup>2</sup> economics, English, family and human development, <sup>2</sup> French, geography, German, history, Japanese, mathematics, physics, political science, social studies, or Spanish	Division of Curriculum and Instruction
Selected Studies in Education <sup>2</sup>	BAE	—	College of Education
Special Education	BAE	—	Division of Curriculum and Instruction

<sup>1</sup> If a major offers concentrations, one must be selected unless noted as *optional*.

<sup>2</sup> Applications are not being accepted at this time.

10. Teacher Education and Certification Highway + Masters in Education option (TEACH+ME) (elementary education—postbaccalaureate only); and

11. Teacher Education for Arizona Mathematics and Science (TEAMS) (secondary education—postbaccalaureate only).

For more information about these ITC programs, call 480/965-5555, or access the Office of Student Services Web site at [coe.asu.edu/oss](http://coe.asu.edu/oss).

**Apprentice Teacher Program (ATP).** ATP is a concentrated elementary education program that is completed in one calendar year, January through December, with all course work field experiences and student teaching based in participating schools. The program conforms to the public school calendar, thus extending the academic year for ASU students by eight weeks. Students are engaged in K–5 classroom experiences and ASU classes from 8 a.m. to 4 p.m., Monday through Friday for 46 weeks. The theoretical premise that undergirds the ATP program might be called “practice informed by theory,” as students are immersed in both “school” and “teacher” cultures throughout the program. Admission is for spring semester only, with a June 1 priority deadline and a September 1 final deadline.

**Diné Teacher Education Program.** The Diné Teacher Education Program is a collaborative effort between Diné College and the ASU College of Education. All course work is done at the Diné College campus (Tsaile, Arizona) and all field placements are in Navajo bilingual classrooms in Navajo schools. The program is designed to prepare Navajo teachers to teach in Navajo communities of the Navajo Nation. This program meets the requirements for an initial teaching certificate for elementary education and an Arizona endorsement in bilingual education. For more information, call 928/724-6819.

**Early Childhood Interprofessional Program (Birth–Third Grade).** The early childhood program has a core focus on interprofessional education that includes cross-

training. Students work with members of other disciplines and collaborate between and across community programs and university departmental structures to promote broad-based professional preparation. Students participate in schools and community agencies that also operate cross-professionally. The early childhood faculty and its community partners work from a child-sensitive, or constructivist approach that emphasizes constructivist theory, multiple points of view, emergent learning, and a developmental, integrative approach to classroom practice. The program includes course work for a provisional English as a second language endorsement, and is a K–8 certification program. For course requirements, see “Course Requirements,” page 199.

**Elementary Education Partnership Program (K–8).** Students in the Elementary Education Partnership Program (EEPP) work in three different elementary schools, one each semester, before their student teaching. Each semester, or block, includes methods courses that are taught on an elementary school campus through an internship of six hours each week. Students become an integral part of the life of the elementary school, and assignments link the classroom observations and experiences to the content of the methods courses. Faculty from each of the school sites coordinate assignments and activities to ensure a wide range of learning experiences; some assignments are continued across semesters. Course content is in place to qualify all students in this program for a provisional English as a second language endorsement. A fast track option is available, but it is a highly competitive process. Consult with an academic advisor in the Office of Student Services for application deadlines and criteria. For course requirements, see “Course Requirements,” page 200.

**Indigenous Teacher Preparation Program.** Through the commitment of the College of Education and with the collaborative efforts of the ASU Center for Indian Education, the Indigenous Teacher Preparation Program (ITP) intends to meet the unique educational and culturally related

academic needs of indigenous children. ITP has developed a program focusing on cultural knowledge and sensitivity; it emphasizes pedagogy and strategies that are most effective for indigenous learners. ITP strives to prepare high quality beginning teachers for elementary certification, provide a developmental and responsive curriculum focused on Indian education, foster knowledge and values of the indigenous community, and promote leadership in teaching and teacher education. The program benefits teaching candidates through a cohort for support, an apprentice model for field experiences, and numerous university resources.

**Integrated Certification in Teacher Education. INCITE** is a flexible program that prepares working adults to become secondary education teachers. All course work is offered during the evening and on weekends except for secondary education methods courses, which may be offered only during daytime hours depending on the corresponding college's schedule. Daytime field experience internship hours are required. INCITE is designed for postbaccalaureate students only.

**Multilingual/Multicultural Program.** The MLMC program is a four-semester sequence offered in "blocks" with focused field requirements in selected elementary schools that offer bilingual and/or ESL settings. The bilingual education option prepares teachers to teach elementary students whose primary language is Spanish or a Native American language spoken in Arizona. The ESL option prepares teachers to teach elementary school students from any language background who are still acquiring English as an additional language. Methods courses are often divided into BLE or ESL sections, although some course work is planned together to promote collaboration. The program meets Arizona requirements for an elementary education teaching certificate with an endorsement in bilingual education or English as a second language. For course requirements, see "Course Requirements," page 201.

**Secondary Education (SED) (7–12).** In order to integrate teacher education preparation with the secondary education requirement for an academic specialization, the College of Education maintains connections with academic departments across the university. Each program semester requires an internship in the schools, and some courses are taught in the field. Graduates are eligible for secondary certification in grades 7–12 in one of 15 active academic specializations, and have the option of adding a middle school endorsement. In addition to these 15 active SED programs, three additional specializations are available through the Herberger College of Fine Arts, including Music Education (choral-general or instrumental music), Art Education, and Dance Education. Fine Arts majors receive a recommendation K–12 endorsement. Students with a major in Secondary Education have two academic advisors: one in the college and department of the academic specialization and one in the Office of Student Services in the College of Education. For course requirements, see "Course Requirements," page 202.

**Special Education (SPE).** The SPE program leads to the BAE degree in Special Education and to certification in K–12 special education for children with learning disabili-

ties, mild mental retardation, or emotional/behavioral disorders. This program provides preparation in each of the three disability areas; however, the student only qualifies for a teaching certificate in one area, which is determined by the area of student teaching placement. A school internship is required for each semester. For course requirements, see "Course Requirements," page 203.

**Teacher Education and Certification Highway + Masters in Education option (TEACH+ME).** TEACH+ME is a self-paced postbaccalaureate program geared toward working adults interested in achieving elementary (K–8) teaching certification or current teaching professionals who do not possess elementary education certification. The program offers students an array of experiences. Students learn the most recent teaching strategies and become an interactive force in the development of a professional teacher education model. Students also participate in teaching experiences with a mentor teacher and students in designated urban schools.

**Teacher Education for Arizona Mathematics and Science (TEAMS).** TEAMS is a 10-month program, with course work leading to 7–12 certification and an optional middle school endorsement. It is a combined postbaccalaureate/master's program specializing in mathematics, science, and technology, and is based on technology, field-based experiences, internships, and course work. Students attend classes full-time during daytime hours.

## UNIVERSITY GRADUATION REQUIREMENTS

In addition to fulfilling college and major requirements, students must meet all university graduation requirements. For more information, see "University Graduation Requirements," page 88.

## DEGREE REQUIREMENTS

A minimum of 120 semester hours is required for the Bachelor of Arts in Education (BAE) degree. The BAE degree consists of four areas:

1. General Studies;
2. College of Education core requirements (Elementary Education, Apprentice Teacher Program, Multilingual/Multicultural Education, Early Childhood Education, Secondary Education, and Special Education);
3. Academic specialization (Secondary Education only); and
4. Initial Teacher Certification (ITC) program courses.

The College of Education expects degree candidates to meet individual course assessment standards, field-experience observation criteria, courses required for teacher certification, and other proficiency standards and performance criteria required to demonstrate knowledge and skill in the

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L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## COLLEGE OF EDUCATION

areas listed under “Bachelor of Arts in Education,” page 195.

The degree program also includes courses and academic content required for teacher certification by the State of Arizona. Students seeking certification in one of the fine arts must complete degree requirements in the Katherine K. Herberger College of Fine Arts and specified courses through the ITC program.

### General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement of a minimum of 35 hours of approved course work as described in “General Studies,” page 92. Note that all three General Studies awareness areas are required. General Studies courses are listed in the “General Studies Courses,” page 94, in the course descriptions, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*.

Preprofessional students should complete as many of the General Studies courses as possible before admission to the ITC program. Students are encouraged to consult with an academic advisor to ensure they comply with all necessary requirements.

### College of Education Core Requirements

The Initial Teacher Certification program prepares students for teacher certification and requires students to complete semester hours selected from specific core courses pertinent to the teaching area. Courses listed under this portion of the academic major are governed by the general ASU “Guidelines for Determination of Catalog Year.”

For more information, see “Guidelines for Determination of Catalog Year,” page 88.

### Initial Teacher Certification Program Courses

The Initial Teacher Certification (ITC) program is a sequential program consisting of 36 to 55 semester hours. Ranging from nine to 19 hours per semester, the courses for one semester must be completed before enrolling in the next semester. In other words, courses for one semester usually may not be taken at the same time as those scheduled for another semester. In addition to ITC courses, students continue completing the General Studies requirement and core requirements or academic specialization requirements through the third semester of the program (except for students applying to the Apprentice Teacher Program in Elementary Education). Courses listed under this portion of the academic major are governed under an alternative catalog year, and students should consult with their academic advisors before applying to the ITC program of their choice, to determine the ITC courses for their designated admission date.

### Declaration of Graduation

Undergraduate students must file a declaration of graduation during the first semester of enrollment in the ITC program. Preprofessional students completing 87 hours (the university limit for registering without a program of study) who have not been admitted to the ITC program must meet with an advisor to obtain a registration waiver by the College of Education. See “University Graduation Requirements,” page 88.

### Field Experience Requirements

In addition to course work, students admitted to the ITC program are required to participate in directed field experiences during each of the four semesters of the program. The field experiences progress from short-term observation and participation to long-term supervised practice teaching.

Students should expect these field experiences to be above and beyond the class times listed in the *Schedule of Classes* for each semester. Such field experiences typically take place in schools throughout the greater Phoenix area. Regular attendance is required during all field experiences. Students should plan extra travel time and expect to confer with placement teachers and field facilitators before or after scheduled field experiences. To meet field experience requirements, students must plan to have their own transportation and be available during regular school hours.

Teaching is a highly demanding and extraordinarily complex profession. Students desiring to become teachers must maintain academic standards and demonstrate requisite qualifications for successful teaching, including effective interpersonal skills, basic communication skills, appropriate professional conduct, and satisfactory performance during field experience assignments.

Observation and participation assignments in the schools during first, second, and third semester field experience placements are designed to prepare students for the highly demanding performance-based student teaching during semester four.

**Student Teaching.** The culminating field experience, called *student teaching*, occurs in the final semester of the ITC program and is a full-day, full-semester obligation. Student teaching takes place only during fall and spring semesters.

Student teaching is a full-time, 15 week, commitment under the supervision of a mentor teacher. To be eligible for a student teaching placement, individuals must apply by the deadline determined each semester by the Office of Professional Field Experiences. Students must complete all program requirements before beginning a student teaching assignment. Student teachers must adhere to the calendar, regulations, and philosophy of the schools in which they are placed. Beginning and ending dates for student teaching are determined by the Office of Professional Field Experiences in cooperation with the participating school. Because student teaching is on a full-day schedule, 8 A.M. to 4 P.M. Monday through Friday for 15 consecutive weeks, student teachers are strongly encouraged to avoid extra activities and outside employment that would interfere with the heavy demands placed upon them while student teaching.

For course requirements for each academic specialization, refer to the location shown in the “Academic Specializations” table, page 199.

For approval to student teach, ITC students must

1. have attained a high level of professional standards in previous field experience assignments;
2. be in good standing as defined in the ITC Retention and Continuation Policy;
3. have a Fingerprint Clearance Card on file when submitting a student teaching application;
4. not have an incomplete grade in any ITC course;

**Academic Specializations**

Academic Specialization	Page
Art education <sup>1</sup>	281
Biological sciences	427
Business	167
Chemistry	360
Dance education <sup>1</sup>	295
Economics	367
English	369
Family and human development <sup>2</sup>	375
French	409
Geography	379
German	409
History	387
Japanese	409
Mathematics	439
Music education <sup>3</sup>	301
Physical education	552
Physics	450
Political science	455
Social studies	388
Spanish	409

<sup>1</sup> Art education and dance education concentrations are under corresponding BFA majors.

<sup>2</sup> Applications are not being accepted at this time.

<sup>3</sup> Students pursue a BM degree with a major in Music Education.

5. complete all ITC courses (with a "C" [2.00] or higher);
6. have all General Studies, College of Education, and academic specialization course work completed (If student teaching in fall, a student must complete all courses by the end of the first summer session; if in spring, by the end of the fall semester.); and
7. have an approved Declaration of Graduation (undergraduates) or Program Agreement (postbaccalaureates) on file.

Students may be provisionally approved to start the paperwork for a student teaching placement if final course work is in progress. Provisional approval is not given if courses are outstanding (not in progress). Students may not take any courses while student teaching unless approved by the College of Education Standards Committee. For more information, contact an academic advisor in the Office of Student Services.

**MAJOR REQUIREMENTS****Early Childhood Education—BAE**

**Course Requirements.** Many courses are held at local elementary schools during the regular school day. Field Experience requires a minimum commitment of six hours a week during the regular school day. Field-based courses are taken

in semester blocks in sequential order. Program courses and requirements are subject to change depending on the ITC admission date.

**Required**

First-Year Composition.....	6
General Studies.....	35–37
Total .....	41–43
Electives .....	0–6

**College of Education Requirements\***

ECD 310 Educational Environments: Infants/Toddlers.....	3
ECD 314 The Developing Child.....	3
EED 334 Children's Literature and Elementary School Curriculum .....	3
or RDG 334 Children's Literature and Elementary School Curriculum (3) .....	3
MCE 446 Understanding the Culturally Diverse Child C.....	3
MTE 180 Theory of Elementary Mathematics .....	3
MTE 181 Theory of Elementary Mathematics .....	3
SPE 311 Orientation to Education of Exceptional Children SB, C.....	3
Fine arts requirement .....	9
Total .....	30

\* A minimum grade of "C" (2.00) is required in all courses.

**ITC Program Courses\*****Semester I**

ECD 400 Inquiry into Teaching and Learning.....	3
ECD 401 Integrated Curriculum and Assessment: Social Studies and Creative Arts .....	3
ECD 403 Educational Environments: Preschool/Kindergarten/Primary Grades .....	3
ECD 496 Field Experience .....	1
EDT 300 Computers in Education.....	1
SPF 401 Theory and Practice in Education.....	1
Total .....	12

**Semester II**

ECD 300 Principles of Interprofessional Collaboration.....	3
ECD 494 ST: Integrated Curriculum Assessment: Math.....	3
ECD 494 ST: Integrated Curriculum Assessment: Science.....	3
ECD 496 Field Experience .....	1
SPE 416 Quality Practices in the Collaborative Classroom .....	3
Total .....	13

**Semester III**

BLE 408 SEI for Linguistically Diverse Learners .....	3
ECD 315 Classroom Organization and Guidance in the Early Years.....	2
ECD 404 Teaching Reading and Language Arts in Early Childhood.....	3
ECD 405 Practicum in Teaching Reading and Language Arts in Early Childhood.....	2
ECD 496 Field Experience .....	1
Total .....	11

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 92.

## COLLEGE OF EDUCATION

### Semester IV

EED 478 Student Teaching in the Elementary School .....	12
ITC program course total .....	48

\* A minimum grade of "C" (2.00) is required in all courses.

### Elementary Education (Partnership Program)—BAE

The Partnership program includes three semesters of field placement in classroom settings, drawing on the rich resources of the Phoenix metropolitan area. The fourth semester is a 15-week, full-time student teaching capstone experience. Course content is in place to qualify all students in this program for a provisional ESL endorsement.

**Course Requirements.** Many courses are held at local elementary schools during the regular school day. Field Experience requires a minimum commitment of six hours a week during the regular school day. Field-based courses are taken in semester blocks in sequential order. Program courses and requirements are subject to change depending on the ITC admission date.

#### Required

First-Year Composition .....	6
General Studies .....	35–37
Total .....	41–43
Electives .....	0–7

#### College of Education Requirements\*

EDP 303 Human Development <i>L</i> .....	3
or CDE 232 Human Development <i>SB</i> (3)	
or ECD 314 The Developing Child (3)	
or EDP 313 Childhood and Adolescence (3)	
EDP 310 Educational Psychology <i>SB</i> .....	3
MCE 446 Understanding the Culturally Diverse Child <i>C</i> .....	3
MTE 180 Theory of Elementary Mathematics .....	3
MTE 181 Theory of Elementary Mathematics .....	3
SPE 311 Orientation to Education	
of Exceptional Children <i>SB, C</i> .....	3
Total .....	18

\* A minimum grade of "C" (2.00) is required in all courses.

#### ITC Program Courses\*

##### Semester I

BLE 408 SEI for Linguistically Diverse Learners .....	3
EED 433 Language Arts Methods, Management, and	
Assessment in the Elementary School .....	3
EED 496 Field Experience .....	1
EED 498 PS: Integrated Children's Literature .....	1
RDG 415 Teaching Phonics .....	3
RDG 494 ST: Teaching Reading/Practicum Grades K–3 .....	3
SPE 416 Quality Practices in the Collaborative Classroom .....	1
SPF 401 Theory and Practice in Education .....	1
Total .....	16

##### Semester II

EDT 300 Computers in Education .....	1
EED 455 Social Studies Methods, Management, and	
Assessment in the Elementary School .....	3
EED 496 Field Experience .....	1
EED 498 PS: Integrated Children's Literature .....	1

RDG 494 ST: Teaching Reading/Practicum Grades 4–8 .....	3
SPE 416 Quality Practices in the Collaborative Classroom .....	1
Total .....	10

### Semester III

EED 420 Science Methods, Management, and Assessment	
in the Elementary School .....	3
EED 480 Mathematics Methods, Management, and	
Assessment in the Elementary School .....	3
EED 496 Field Experience .....	2
SPE 416 Quality Practices in the Collaborative Classroom .....	1
SPF 301 Culture and Schooling <i>L</i> .....	3
Total .....	12

### Semester IV

EED 478 Student Teaching in the Elementary School .....	12
ITC program course total .....	50

\* A minimum grade of "C" (2.00) is required in all courses.

### Elementary Education (Apprentice Teacher Program)—BAE

Offered jointly with local school districts, the Apprentice Teacher Program (ATP) is a concentrated, full-time, day-time certification program option that is completed in one calendar year, with all course work based in the participating schools. This full-immersion program begins each January and leads to K–8 teacher certification.

**Course Requirements.** The Initial Teacher Certification (ITC) program is completed in one calendar year, spring admission only. All course work (General Studies and College of Education requirements) not included in the ATP program, must be completed before beginning the program. Additionally, undergraduate students must complete 70 semester hours by the start of the program. The program schedule conforms to the public school calendar rather than the ASU calendar, thereby extending the academic year by eight weeks. The program is intense but efficient. Students are actively engaged in classroom experiences or ASU course work for at least seven hours every day (Monday–Friday) for 46 weeks. Field-based courses are taken in semester blocks in sequential order. Program courses and requirements are subject to change depending on the ITC admission date.

#### Required

First-Year Composition .....	6
General Studies .....	35–37
Total .....	41–43
Electives .....	9–14

#### College of Education Requirements\*

EDP 310 Educational Psychology <i>SB</i> .....	3
MTE 180 Theory of Elementary Mathematics .....	3
MTE 181 Theory of Elementary Mathematics .....	3
SPE 311 Orientation to Education	
of Exceptional Children <i>SB, C</i> .....	3
Fine arts requirements .....	9
Total .....	21

\* A minimum grade of "C" (2.00) is required in all courses.